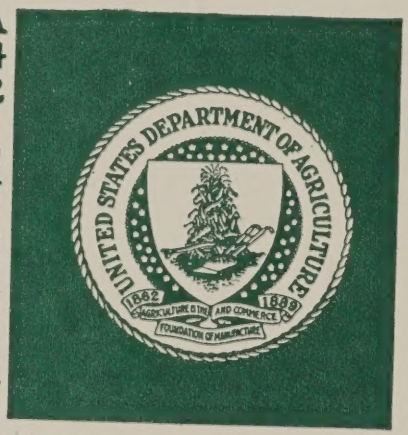
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Vol. 41—No. 1 January 1977

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BIBLIOGRAPHY OF AGRICULTURE

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The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

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BIBLIOGRAPHY OF AGRICULTURE

with SUBJECT INDEX

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U.S. Department of Agriculture

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

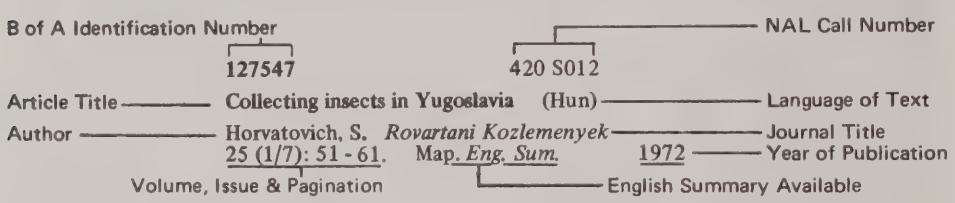
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

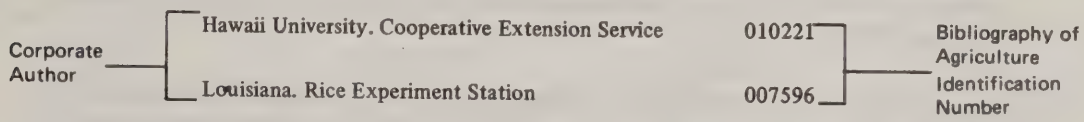
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

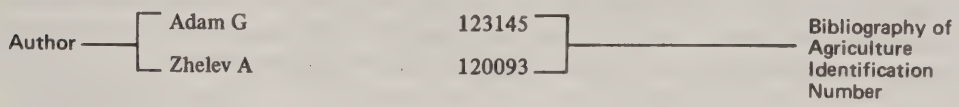
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES
Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693
The **cheese** *industry*. 227819
Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689
Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms,* published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

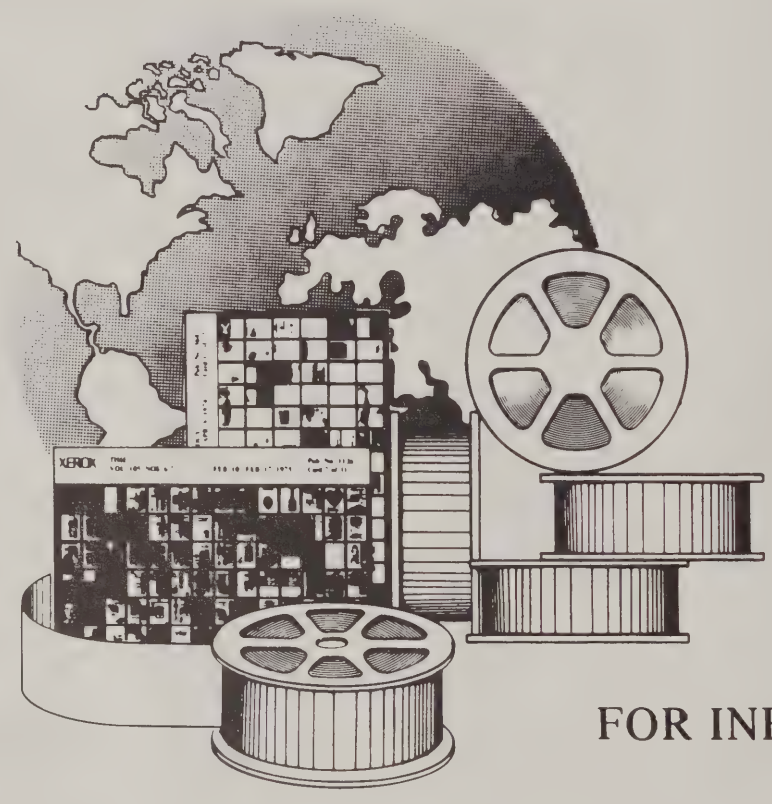
LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Acarologia
Access List Land Tenure Cent Libr
Acrida
Acta Agrobot
Acta Aliment Pol
Acta Amazonica
Acta Anat
Acta Bot Neerl
Acta Endocrinol
Acta Fac Rerum Nat Univ Comenianae Physiol Plant
Acta Physiol Scand
Acta Phytopathol
Acta Theriol
Acta Univ Agric, Fac Agroecon
Acta Zool Lilloana
Adansonia
Adv Behav Biol
Adv Chromatogr
Adv Environ Sci Technol
Advis Leafl G B Minist Agric Fish Food
AE & RS Pa State Univ Dep Agric Econ Rural Soc
Agrar Rundsch
Agrartechnik
Agrarwirtschaft
Agric Adm
Agric Agroind J
Agric Biol Chem
Agric Econ Rep Dep Agric Econ Mich State Univ
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric Econ Res
Agric Educ
Agric Financ Rev
Agric Gaz N S W
Agric Handb U S Dep Agric
Agric Inf Bull U S Dep Agric
Agric Ital
Agric North Irel
Agric Pak
Agric Res
Agrichem Age
Agrochemia (Bratisl)
Agrochimica
Agrociencia
Agrologist
Agron J
Agroplantae
Aktuel Acker- Pflanzenbau
Aktuel Lantbrukshogsk (Upps)
Aktuelt Landbruksdep Opplysningstjeneste [Norw]
Allg Forstz
Allg Forstztg
Am Bee J
Am Christmas Tree J
Am Farriers J
Am Fern J
Am For
Am J Agric Econ
Am J Bot
Am J Vet Res
Am Nurserym
Am Orchid Soc Bull
Am Potato J
Am Rose Annu Am Rose Soc
Am Sci
Am Veg Grow
Amer J Clin Nutr
AMS U S Dep Agric Agric Mark Serv
An Esc Nac Cienc Biol
Anal Situac Agric Sinaloa Confed Asoc Agric Estado Sinaloa Dep Estud Econ Estad
Ann Agric Fenn
Ann Agron
Ann Arid Zone Arid Zone Res Assoc India
Ann Biol Anim Biochim Biophys
Ann Bogor
Ann Bot
Ann Bot Fenn
Ann Entomol Soc Am
Ann Falsif Expert Chim
Ann Microbiol Enzimol
Ann N Y Acad Sci
Ann Nutr Aliment
Ann Parasitol Hum Comp
Ann Pharm Fr
Ann Phytopathol
Ann Rech Vet
Ann Zool Ecol Anim
Annee Biol
Annot Bibliogr Ser D Commonw Bur Agric Econ
Annu Prog Rep Oak Ridge Natl Lab Environ Sci Div
Annu Rep Agric Res Counc Letcombe Lab
Annu Rep Carnegie Inst Wash Dep Plant Biol
Annu Rep Radiat Cent Osaka Prefect
Annu Rep Stud Anim Nutr Allied Sci Rowett Res Inst
Annu Rev Microbiol
APHIS-81 U S Anim Plant Health Insp Serv
Apidologie
Arable Farming
Arb Osterreich Kurator Landtech
Arboric Fruit
Arch Acker- Pflanzenbau Bodenkd
Arch Biochem Biophys
Arch Inst Pasteur Tunis
Arch Mikrobiol
Arch Pharm Ber Dtsch Pharm Ges
Arch Phytopathol Pflanzenschutz
Arch Tierernahr
Arch Zool Exp Gen
Arnoldia Rhod
Arq Biol Tecnol
Arq Esc Vet (Belo Horizonte)
Arq Zool
Arsb Foren Skogstradsfor Inst Skogsforbattr
ARS-NC U S Agric Res Serv North Cent Reg
ARS-NE U S Agric Res Serv Northeast Reg
ARS-S U S Agric Res Serv South Reg
ARS-W U S Agric Res Serv West Reg
ASC Ky Univ Dep Anim Sci
Aspects Plant Sci
Atlas Protein Sequence Struct
Audiovisual Instruction
Aust J Bot
Aust J Chem
Aust J Dairy Technol
Aust J Ecol
Aust J Plant Physiol
Aust Orchid Rev
Aust Vet J
Aust Vet Pract
Avian Pathol
Bakers Dig
Beitr Entomol
Ber Eidg Anstalt Forstl Vers
Ber Schweiz Bot Ges
Berl Munch Tierarztl Wochenschr
Beton Landbau
Bibliogr Insectic Mater Veg Origin Trop Fruits Inst
Bibliogr Ser Inst Pap Chem
Bienenvater
Bienenwelt
Biochem Genet
Biochem J
Biochem Physiol Pflanz
Biochem Rev (Bangalore)
Biochemistry (Easton)
Biochim Biophys Acta
Biol Chem Vyz Zvirat
Biol Ecol Med
Biol Resursy Vodoemov Mold
Biomembranes
BioScience Am Inst Biol Sci
Biull Moskovsk O-va Ispyt Prir Otd Biol
Biull Nauchn Rabot Vses Nauchno-Issled Inst Zhivotnovod
Blyttia
Bol Univ Repub Fac Agron (Montev)
Bonn Zool Beitr
Bot J Linn Soc
Bot Mar
Bot Not
Bot Tidsskr
Br Bee J
Br Phycol J
Br Poult Sci
Bul Kebun Raya
Bulg Tiutiun
Bull A Md Agric Exp Stn
Bull Acad Pol Sci, Ser Sci Biol
Bull Am Iris Soc
Bull B Okla Agric Exp Stn
Bull Biol Fr Belg
Bull Br Mus Nat Hist Entomol
Bull Coop Ext Serv Univ Ga Coll Agric
Bull Ec Natl Super Agron Ind Aliment Nancy
Bull Environ Contam Toxicol
Bull For Timber Bur (Canberra)
Bull Inf CNEEMA (Cent Natl Etud Exp Mach Agric)
Bull Minist Agric Rural Dev Malays
Bull Mont Agric Exp Stn
Bull Off Int Epizoot
Bull P N S W Dep Agric
Bull P R Agric Exp Stn
Bull Pa Agric Exp Stn
Bull Rech Agron Gembloux
Bull Res Inst Nedri As
Bull Soc Bot Fr
Bull Soc Chim Belg
Bull South Aust Dep Agric
Bull Tech Genie Rural Cent Tech Genie Rural Forets
Bull Univ Tenn Agric Exp Stn
Bull Vet Inst Pulawy
Bull Yale Univ Sch For Environ Stud
C R Seances Soc Biol Fil
Cac Suc J
Calif Fire Control Notes Calif Dep Conserv Div For
Can Agric
Can Entomol
Can For Ind
Can Inst Food Technol J
Can J Bot
Can J Zool
Can Plant Dis Surv Can Dep Agric Res Branch
Candollea
Cane Grow Bull
Caribb J Sci
Cell Immunol
Cell Mass Inst Technol
Cell Tissue Res
Cellule
CELOS Bull (Cent Landbouwkd Onderz Surinam)
Cereal Chem
Cereal Foods World
Chem Ind Soc Chem Ind
Chromosoma
Cienc Cult Soc Bras Para Progr Cienc
Circ A N D State Univ Coop Ext Serv
Circ Coop Ext Ser Univ Ga Coll Agric
Circ Ill Univ Agric Ext Serv
Circ N C State Univ Agric Ext Serv
Circ Wash (State) Agric Exp Stn
Citrus Ind
Clays & Clay Miner
Collect Czech Chem Commun
Comb Proc Int Plant Propag Soc
Comp Biochem & Physiol A, Comp Physiol
Comp Biochem & Physiol B, Comp Biochem
Compact Fruit Tree
Conn Woodl
Connaiss Vigne Vin
Consultant
Contrib Cent Res Inst Agric (Bogor)
Control Ser Va Polytech Inst State Univ Coop Ext Serv
Coop Ext Pub La State Univ Agric Mech Coll Coop Ext Serv
Cotton Gin Oil Mill Press
Cotton Qual U S Agric Mark Serv Cotton Div
Counc Agric Sci Technol Rep
Crop Bull Can Grain Comm Grain Comm Res Lab (Winnipeg)
Crop Bull Trinidad Tobago Minist Agric Lands Fish
Ctry Life
Cukoripar
Cultivar
Cytobiologie
Czech Econ Pap
Dairy Herd Manage
Dairy Tales
Dairyman (Armadale)
Dan Bot Ark
Dan Geol Unders
Derecho Reforma Agrar Rev
Dev Biol
Din Rural
Div Rep C S I R O Div Soils
Dokl Akad Nauk SSSR
Dtsch Baumsch
Dtsch Forstm
E H P (Environ Health Perspect)
Ecol Res Ser
Ecology (Durham)
Econ Agric
Econ Bot
Econ Branch Publ Can Dep Agric Econ Branch
Econ Inf Ohio Agric
Econ Rep Minn Univ Dep Agric Appl Econ
Egypt J Genet Cytol
Egypt J Hortic
Egypt J Vet Sci
Ekologiia
Encycl Plant Physiol New Ser
Endocr Res Commun
ENT Univ Ky Coll Agric Coop Ext Serv
Entomol Exp Appl
Entomol Medd
Entomol Phytopathol Appl Plant Pests Dis Res Inst
Entomol Rec J Var
Entomol Scand
Entomol Z
Entomophaga
Environ Exp Bot
Environ Sci Tech
Equip Dev Test Rep U S Dep Agric For Serv Equip Dev Cent (Calif)
ERS U S Dep Agric Econ Res Serv
ESS Ohio State Univ Dep Agric Econ Rural Sociol
Evk Fajtakiserletezes Fajtaminosites Orsz Mezogazdasagi Fajt
Exp Anim
Experientia
Experientiae
Ext Bull Asian Pac Counc Food Fert Tech Cent
Ext Bull Md Univ Coop Ext Serv
Ext Fol Agric Ext Serv Univ Minn
Fact Sheet Coop Ext Serv Univ Md
Farm Food Res
Farmer Parliament
Fauna Pol
FCS Res Rep Farmer Coop Serv U S Dep Agric
FDA Papers
Feed Situat U S Dep Agric Econ Res Serv
Feedstuffs
Feldwirtschaft
Feline Pract
Fert Mark News
Fette Seifen Anstrichm
Field Notes U S For Serv
Fieldiana Bot
Fitoterapia
Fiziol Rast (Sofiia)
Fleisch
Fleischerei
Flora, Abt B Morphol Geobot
Flora (Lond)
Flora West Pak
Floresta (Curitiba)
Florists Rev
Flugbl Bundesanst Pflanzenschutz
Folia Biol (Praha)
Food Cosmet Toxicol
Food Eng
Food Ind S Afr
Food Nutr Notes Rev
Food Prod Dev
Food Res Inst Stud Agric Econ Trade Dev
Food Technol Rev
For Prod J
For Res what's new west
For Sci
Foreign Agric Circ Citrus FCF U S Foreign Agric Serv

Foreign Agric Circ FCOF U S Foreign Agric Serv
Foreign Agric Circ FD U S Foreign Agric Serv
Foreign Agric Circ, FDAP (U S Dep Agric)
Foreign Agric Circ FLM U S Foreign Agric Serv
Foreign Agric Circ FOP U S Foreign Agric Serv
Foreign Agric Circ FPE U S Foreign Agric Serv
Foreign Agric Circ FTEA U S Foreign Agric Serv
Foreign Agric Circ Sugar FS U S Foreign Agric Serv
Foreign Agric Trade U S Dep Agric Econ Res Serv
Foreign Agric U S Foreign Agric Serv
Forsk Prakt
Forst Holzwirt
Forsttech Inf
Fortschr Tierphysiol Tierernahr
Fortschritte Integrierten Pflanzenschutz
Fourrages Actual
FRI Res Pam (For Res Inst Kepong)
Frugtavleren
Fruit World Mark Grow
Frutticoltura
Fuchsia Annu Br Fuchsia Soc
Ga For Res Pap Ga For Res Counc
Gakujutsu Hokoku Bull Fac Text Sci Kyoto Kogei Sen-i Daigaku Sen-igakubu
Garden
Gartenbau
Gartneryrket
Genen Phaenen
Genet And Plant Breed
Genetics
Genetika
Geobot Kartogr
Gesundheitwes Desinfekt
Gorsko Smoiansmbo
Gorskostop Nauka
Gorteria
Grass
Grundlagen Landtech
Handb Landwirtsch Vers Untersmethod
Hassadeh
Herba Pol
Hereditas
Histochemistry
Hodowla Rosl Aklim Nasienn
Hog Farm Manage
Holly Lett
Holzforsch Holzverwert
Holzforschung
Holzindustrie
Holztechnologie
Holzzucht
Home Gard Bull U S Dep Agric
Hoppe Seylers Z Physiol Chem
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N D Res Rep
N Z Agric Sci
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Natl Food Situat NFS U S Dep Agric Econ Res Serv
Natl Food Situation
NATO Adv Study Inst Ser Ser A Life Sci
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Neth J Plant Pathol
New Sci (London)
NIAB Farmers Leafl (Natl Inst Agric Bot)
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Oriental Insect
Osteuropa
Ovoshtarstvo
Ovtsevodstvo
PA U S Dep Agric
Pak Cottons
Palaeobotanist
PANS Pest Artic News Summ
Pap Puu
PB U S Natl Tech Inf Serv
Pediatrics
Pepinier Hortic Maraich
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PM Iowa State Univ Sci Technol Ames Coop Ext Serv
PNW Bull Oreg State Univ Coop Ext Serv
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USDA For Serv Res Note PNW U S Pac Northwest For Range Exp Stn
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Insect pests and controls—horticultural crops ..... 018491 – 018612
Insect pests and controls—forest trees, products ..... 018613 – 018664
Insect pests and controls—products ..... 018665 – 018699
Insect pests and controls—animal and man ..... 018700 – 018854
Pesticides—general ..... 018855 – 018991
General entomology ..... 018992 – 019364
Taxonomic entomology ..... 019365 – 019558
Apiculture and sericulture ..... 019559 – 019657
Agricultural engineering ..... 019658 – 019731
Farm equipment ..... 019732 – 019889
Soil science ..... 019890 – 020213
Soil improvement materials ..... 020214 – 020455
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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

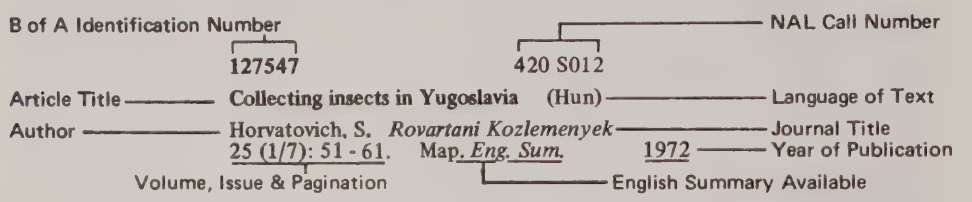
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

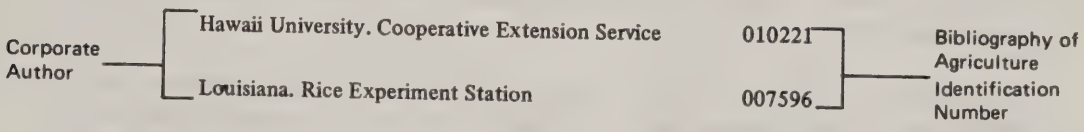
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

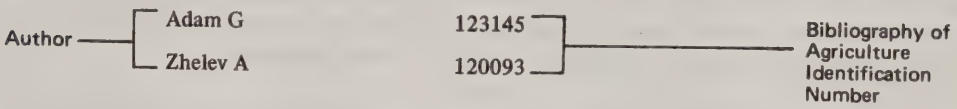
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES

Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693

The **cheese** *industry*. 227819

Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689

Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms*, published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

LIST OF JOURNAL TITLE ABBREVIATIONS CITED

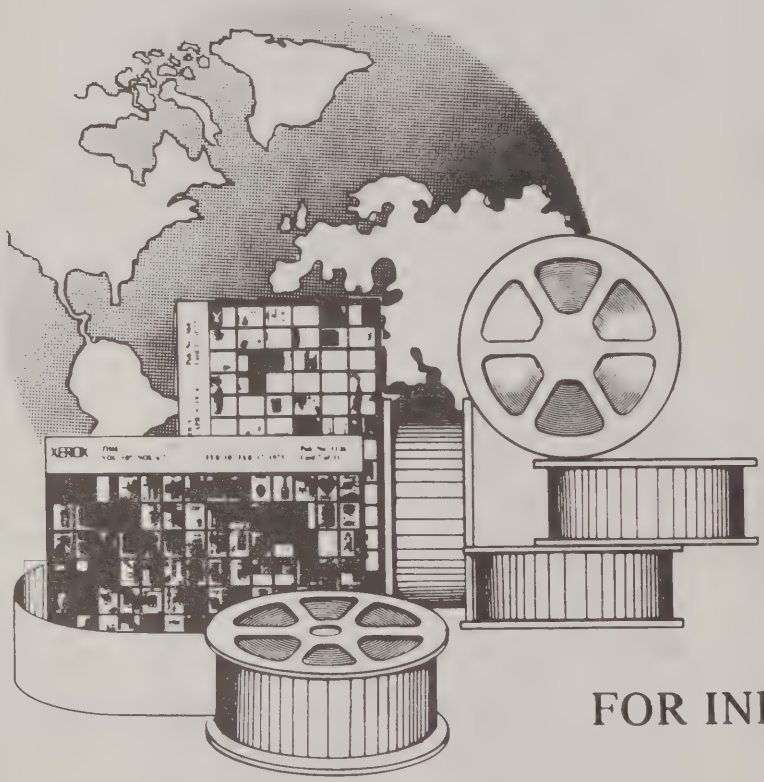
A Coop Ext Programs Univ Wis
A E Pap Okla State Univ Dep Agric Econ
A M A (Agric Mech Asia)
A S A Spec Publ Am Soc Agron
Abeille Fr Apicul
ACS Symp Ser (Amer Chem Soc)
Acta Biochim Biophys
Acta Histochem
Acta Hydrochim Hydrobiol
Acta Med Vet
Acta Pathol Microbiol Scand, Sect B Microbiol
Acta Physiol Scand
Acta Soc Fauna Flora Fenn
Acta Univ Agric, Fac Silvic
Acta Vet
Acta Virol
Adv Heterocycl Chem
Advis Leafl G B Minist Agric Fish Food
AEN Dep Agric Eng Univ Ky Coop Ext Serv
AFRI Res Rep N Y (State) State Univ Coll Environ Sci For Appl For Res Inst
AGR Ky Univ Dep Agron
Agric Agroind J
Agric Bergamasca
Agric Biol Chem
Agric Econ Rep Dep Agric Econ Mich State Univ
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric Econ Res
Agric Eng (St Joseph, Mich)
Agric Ext Serv Univ Minn Spec Rep
Agric Ferrar
Agric Gaz N S W
Agric Handb U S Dep Agric
Agric Hist
Agric Hist Rev
Agric Inf Bull U S Dep Agric
Agric Mark (Nagpur)
Agric Merch
Agric Meteorol
Agric North Irel
Agric Prog (Shrewsbury)
Agric Situat India India Dir Econ Stat
Agric Situat U S Dep Agric Stat Rep Serv
Agric Syst
Agrichem Age
Agricoltura
Agron Prog Rep Univ Calif Agric Exp Stn
Agronomia (Monterrey)
Agrotika Niata
Aktuel Lantbrukshogsk (Upps)
Aliso
Alkaloids
Allg Dtsch Imkerztg
Am Camel Yearb
Am Dyest Rep
Am Fruit Grow
Am Hortic
Am J Anat
Am J Bot
Am J Clin Nutr
Am J Enol Vitic
Am J Physiol
Am J Trop Med Hyg
Am J Vet Res
Am Nurserym
Am Potato J
Am Text Rep
An Acad Bras Cienc
An Asoc Quim Argent
An Inst Biol Univ Nac Auton Mex Ser Bot
An Inst Bot A J Cavanilles
An Inst Cercet Pentru Cereale Plant Teh - Fundulea, Ser B Agrochim Agroteh
An Soc Cient Argent
An Soc Rural Argent
Anal Biochem
Anal Chem
Anal Chim Acta
Anat Rec
Anim Breed
Anim Prod
Ann Acad Sci Fenn, Ser A, IV Biol
Ann Agric Sci (Moshtohor)
Ann Appl Biol
Ann Assoc Am Geogr
Ann Bot
Ann Entomol Fenn
Ann Entomol Soc Am
Ann Fac Agrar (Milan)
Ann Geogr
Ann Immunol
Ann Ist Sper Zootec (Rome)
Ann Trop Med Parasitol
Annu Conf Manit Agron
Annu Rev Entomol
Annu Rev Phytopathol
Antarct J U S
Anu Soc Broter
Appl Anim Ethology
Appl Entomol Zool
Appl Polym Symp
Applied Environ Microbiol
Arb DLG (Dtsch Landwirtsch Ges)
Arbor Bull Arbor Found Seattle
Arch Biochem Biophys
Arch Environ Contam Toxicol
Arch Mikrobiol
Arch Protistenkd
Arch Toxikol
Arch Virol
Arct Bull
Arkansas Cattle Bus
ARS-NC U S Agric Res Serv North Cent Reg
ARS-NE U S Agric Res Serv Northeast Reg
ARS-S U S Agric Res Serv South Reg
ARS-W U S Agric Res Serv West Reg
ASC Ky Univ Dep Anim Sci
Atmos Environ
Atoll Res Bull
Atti Rend Accad Naz Lincei
Aust Entomol Mag
Aust For Ind J
Aust J Agric Res
Aust J Biol Sci
Aust J Chem
Aust J Dairy Technol
Aust J Exp Biol Med Sci
Aust J Plant Physiol
Aust J Soil Res
Aust Vet J
Australas Beekeep
Avian Dis
Avic Ind
Avicoltura
B Nev Agric Exp Stn
Beef Res Rep (Canberra)
Behav Genet
Beitr Biol Pflanz
Beitr Tabakforsch
Belg Apic
Ber Geobot Inst Eidg Tech Hochsch Stift Rubel
Ber Schweiz Bot Ges
Beret Statens Husdyrbrugsudvalg Landokonomisk Forsogslab
Bibl Lichenol
Bibliogr Ser Inst Pap Chem
Biene
Bienenpflege
Bienenvater
Bienenwelt
Biochem Biophys Res Commun
Biochem Genet
Biochem J
Biochem Pharmacol
Biochem Physiol Pflanz
Biochemistry (Easton)
Biochim Biophys Acta
Biochimie
Biogeographica
Biol Bull
Biol Pap Univ Alaska Spec Rep
Biol Reprod
Biopolymers
BioScience Am Inst Biol Sci
Biotechnol Bioeng
Birokteren
Blumea
Bol Agric
Bol Cent Panam Fiebre Aftosa
Bol Inf Inst Bot
Bol Inst Tecnol Aliment
Bol Mus Soc Argent
Bol Of Sanit Panam
Bonn Zool Beitr
Bot J Linn Soc
Bot Mag
Bot Monogr Counc Sci Ind Res (New Delhi)
Bot Not
Bot Rev
Br J Nutr
Brittonia
Broil Ind
Brooklyn Bot Gard Rec Plants Gard
Bryologist
Bull Agric Exp Stn Auburn Univ
Bull Agric Exp Stn Div Agric Univ Arkansas
Bull Agric Exp Stn Univ Del
Bull CETIOM (Cent Tech Interprof Ol Metrop)
Bull Conn Agric Exp Stn New Haven
Bull Coop Ext Serv Mont State Univ
Bull Coop Ext Serv Univ Ga Coll Agric
Bull East Scotl Coll Agric Econ Dep
Bull Entomol Res
Bull Entomol Soc Am
Bull Fac Agric Tokyo Univ Agric Technol
Bull Fla Agric Exp Stn
Bull G B Minist Agric Fish Food
Bull Geol Soc Am
Bull Ill Water Surv
Bull Inst Chem Res Kyoto Univ
Bull Inst Public Health (Tokyo)
Bull Inst Tech Porc
Bull Mass Agric Exp Stn
Bull Mens Soc Linn Lyon
Bull Mus Comp Zool (Harvard Univ)
Bull N D State Lab Consum Aff
Bull Res Inst Nedri As
Bull Soc Amis Sci Lett Poznan, Ser D Sci Biol
Bull Soc Sci Vet Med Comp Lyon
Bull Tech Inst Natl Rech Agron Dep Genet Anim
Bull Torrey Bot Club
Bull Univ Maine Orono Life Sci Agric Exp Stn
Bull Univ Manch Fac Econ Soc Stud Dep Agric Econ
Bull Univ R I Agric Exp Stn
Bull Wash State Univ Coll Agric Res Cent
Bull Water Resour Res Cent Va Polytech Inst State Univ
Bull Zool Nomencl
Butter Fat Solids
C Nev Univ Coop Ext Serv
Cac Suc J
Cah Cent Tech Du Bois
Calcif Tissue Res
Calif Cattlem
Calif Farmer (Cent Ed)
Calif Fire Control Notes Calif Dep Conserv Div For
Calif Plant Pathol
Calif Vet
Can Entomol
Can J Agric Econ
Can J Biochem
Can J Bot
Can J Chem
Can J For Res
Can J Genet Cytol
Can J Microbiol
Can J Plant Sci
Can J Soil Sci
Cancer Res
Carbohydr Res
Caryologia
Cas Slezskeho Muz, Ser C Dendrol
Catena
Cattleman
Cattlemen
Cell Differ
Cell Immunol
Cell Mass Inst Technol
Cell Tissue Res
Cellul Carta
Cereal Chem
Cereal Foods World
Chem Ber Ges Dtsch Chem
Chem Commun
Chem Pharm Bull
Chem Phys Lipids
Chem Senses Flavor
Chem Stosow
Chemosphere
Chih-wu Hsueh-pao
Chromatographia
Chromo Inf Serv
Chromosoma
Circ Agric Exp Stn Auburn Univ
Circ Argent Repub Estac Exp Agric Tucuman
Circ Clemson Univ Ext Serv
Circ La Agric Exp Stn
Circ Pa State Univ Coll Agric Ext Serv
Circ S C Agric Exp Stn
Citrus Ind
Clin Chem
Clin Exp Immunol
Clin Exp Pharm Physiol
Clin Vet
Cling Peach Q
Coleopt Bull
Colet Inst Tecnol Aliment
Collana Verde
Collect Ecol
Colloid Polym Sci
Commerce
Commonw For Rev
Commun Soil Sci Plant Anal
Comp Biochem & Physiol A, Comp Physiol
Comp Biochem & Physiol B, Comp Biochem
Comp Biochem & Physiol C, Comp Pharmacol
Comp Pathol Bull
Conn Greenhouse Newsl
Contrib Mar Sci (Port Aransas)
Coop Econ Insect Rep Anim Plant Health Serv Plant Prot Quar Programs
Coop Inf (Int Labor Off)
Cornell Vet
Cotton Gin Oil Mill Press
Cow Moos
Cranberries
Crop Sci
Crops Soils
Cross Sect
Ctry Life
Cukoripar
Curr Sci
Curr Top Microbiol Immunol
Cytobiologie
Cytobios
Dairy Farmer Dairy Beef Prod
Dairy Herd Manage
Dairy Notes
Dairy Tales
Dairy Technol
Dairyfarm Dig
Dairyman (Armadale)
Dep Pap Coll Trop Agric Hawaii Agric Exp Stn Univ Hawaii
Dev Biol
Dev Grow Differ
Dev Ind Microbiol
Dev Psychobiol
Differentiation
Div Rep C S I R O Div Soils
Dokl Akad Nauk Az SSR
Dokl Akad Nauk SSSR
Dottore Sci Agrar
Drug Metab Dispos Biol Fate Chem
Dtsch Entomol Z
Dtsch Molk Ztg
East Econ
Ecol Entomol
Ecol Res Ser
Econ Branch Publ Can Dep Agric Econ Branch
Econ Inf Rep N C State Univ Dep Econ
Effluent Water Treat J
Egypt J Genet Cytol
Einzelbericht Forschungsges Agrarpolit Agrarsoziologie Bonn
Ekol Pol
Elelmez Ipar
EM Coop Ext Serv Coll Agric Wash State Univ
Empress Chinchilla Breeder
Endocrinology
Entomol Ber (Amsterdam)
Entomol Bl
Entomol Exp Appl
Entomol Mitt Zool Mus Hamb
Entomol News

Entomol Newsl
Entomol Z
Entomophaga
Environ Entomol
Environ Exp Bot
Environ Monit Ser EPA-R4
Environ Prot Technol Ser EPA-R2
Environ Sci Tech
Environ Southwest
Equine Vet J
ERDA (Eng Res Dev Agric) Suppl
Erdo
Esso Farmer
Eur J Appl Microbiol
Eur J Biochem
Eur J For Pathol
Eur J Pharmacol
Europ J Immunol
Evolution
Exp Agric
Exp Cell Res
Exp Mol Pathol
Exp Parasitol
Experientia
Explot Agrar
Ext Bull Agric Ext Serv Univ Minn
Ext Bull Asian Pac Counc Food Fert Tech Cent
Ext Bull Mich State Univ Coop Ext Serv
Ext Circ Univ R I Coop Ext Serv
Ext Fol Agric Ext Serv Univ Minn
Ext Serv Rev Coop Ext Serv
F. O. Licht's Int Sugar Rep
Fac Ser Ga Univ Dep Agric Econ
Fact Sheet Oreg State Univ Ext Serv
Faipar
Farm Econ (Pa State Univ)
Farm Fact
Farmer Coop U S Farmer Coop Serv
Farmers Bull U S Dep Agric
FEBS Lett (Fed Eur Biochem Soc)
Fed Proc Fed Am Soc Exp Biol
Feddes Repert
Feedstuffs
Fert Mark News
Fieldiana Zool
Fla Cattlem Livest J
Fla Entomol
Fla Flower Grow
Fla Food Resour Econ
Flora Iran
Florists Rev
Flower Nursery Rep Commer Grow Coop Ext Univ Calif
Folia Biol (Praha)
Folia Biol (Warsaw)
Folia Entomol Mex
Folia Vet Lat
Food Eng
Food Technol
For Bull Dep For Clemson Univ
For Chron
For Manage Bull
For Prod J
For Res Note
For Res what's new west
Forage Grassl Prog
Forage Res
Foreign Agric Econ Rep U S Dep Agric Econ Res Serv
Foreign Agric U S Foreign Agric Serv
Forsch Berat, Reihe C, Wiss Ber Diskussionsbeitr
Forsch Sitzungsber Akad Raumforsch Landespl
Forschungsber Forstl Forschungsanst Munchen
Fortschritte Pflanzenzuchtung
FRI Res Pam (For Res Inst Kepong)
Fruit World Mark Grow
Fruits & Abeilles
G Trop Prod Inst (Lond)
Ga Vet
Gard J
Gartenbau
Gartner Berufsprax
Gaz Apic
Gaz Chim Ital
Gegenbaurs Morphol Jahrb
Gen & Comp Endocrinol
Genet Res
Genetica
Genetics
Genio Rurale
Geoderma
Geophytology
Gesunde Pflanz
Glean Bee Cult
Grain Prod News
Grapevine Calif Univ Berkeley Agric Ext Serv
Great Lakes Entomol
Ground Water
Growth
Grune
Haemostasis
Handb Spez Pflanzenbaues
Haryana J Hortic Sci
Hassadeh
Health Phys
Heredity
Hidrol Kozl
Histochemistry
Hoards Dairym
Hog Farm Manage
Home Econ Res J
Home Gard Bull U S Dep Agric
Hopfenrundschau
Hortic Dig
Hortic Ind
Hortsci
Hospitals
Husipar
I A E A Bull
I C A Informa (Inst Colomb Agropecu)
I Ch'uan Hseuh Pao Acta Genet Sin
IAWA Bull (Int Assoc Wood Anat)
ICAR Tech Bull Indian Counc Agric Res
Iheringia, Ser Bot
Imkerfreund
Immunochemistry
Immunolo Commun
In Agrokhimicheskie metody issledovaniia pochv. A. V. Sokolov, ed.
In Aktual'nye voprosy botanicheskogo resursovedeniia v Sibiri. K. A. Sobolevskaia, ed.
In Avian Physiology. P. D. Sturkie, ed.
In CBCIA Beef "Chow"-ference (California Beef Cattle Improvement Association)
In Confrontation or Cooperation; Proceedings Midwest Milk Marketing Conference
In Ekologiia i estetika landshafta. K. Eringis, ed.
In Food Emulsions. S. Friberg, ed.
In Gel'mintologicheskie issledovaniia v Kirgizii. M. M. Tokobaev, ed.
In Gel'mintologicheskie issledovaniia v Kirgizii. M. M. Tokovaev, ed.
In Genetika, selektsiia, semenovodstvo i vozdelyvanie grechikhi. B. A. Neunylov & others, eds.
In Herbicides: Chemistry, Degradation, and Mode of Action. P. C. Kearney & D. D. Kaufman, eds.
In IEEE (Inst Electr Electron Eng) Conf Rec 1975 Annu Pulp & Pap Ind Tech Conf
In Impact of Fertilizer Shortage: Focus on Asia; Report of the Symposium
In Insecticide Biochemistry and Physiology. C. F. Wilkinson, ed.
In Integrated Pest Management. J. L. Apple & R. F. Smith, eds.
In Intensifikatsiia proizvodstva svininy. A. I. Ovsiannikov & A. T. Mysik, eds.
In International Meeting on Selective Weed Control in Beet Crops
In Issledovanie produktivnosti vida v areale. P. A. Zaianchkauskas & others, eds.
In Lopbaribas razosana. K. Brivkalns & others, eds.
In Management of Forestry Research for Results: Proceedings Of the Meeting of Subject Group S6.06
In Mikroelementy v komplekse mineral'nogo pitaniia rastenii. IA. V. Peive & others, eds.
In NATO Conference Series. I. Ecology (North Atlantic Treaty Organization)
In Non-Point Sources of Water Pollution; Proceedings of A Southeastern Regional Conference
In Nutrition, Longevity, and Aging. M. Rockstein & M. L. Sussman, eds.
In Objective Methods for Food Evaluation; Proceedings of A Symposium
In Parazity i parazitozy zhivotnykh i cheloveka. B. N. Mazurmovich & others, eds.
In Povyshenie kachestva miasa broilerov. S. I. Smetnev & others.
In Proceedings of Conference on Waste Reduction
In Proceedings Symposium on the Sterility Principle for Insect Control
In Recent Researches in Estuarine Biology; Proceedings of Symposium on Estuarine Biology
In Soil Management in Tropical America; Proceedings of a Siminar
In Systems Analysis in Forage Crops Productions and Utilization. R. W. VanKeuren & others, eds.
In Transport and Transfer Processes in Plants; Proceedings of a Symposium
Ind Eng Chem, Process Des Dev
Ind Lact
Ind Leche
Ind Obst Gemuseverwert
Ind Saccarif Ital
Indian Agric
Indian Dairym
Indian Farming
Indian For
Indian J Agric Econ
Indian J Agric Sci
Indian J Biochem Biophys
Indian J Dairy Sci
Indian J Exp Biol
Indian J Med Res
Indian J Nutr Diet
Indian J Plant Physiol
Indian J Poult Sci
Indian J Power River Val Dev
Indian J Technol
Indian Poult Rev
Indian Rubber Stat
Indian Sugar
Indian Tob Bull
Indian Vet J
Inf Bull N Y State Coll Agric Life Sci Coop Ext Serv
Inf Fitopatol
Inf Sheet Coop Ext Serv Miss State Univ
Inf Sobre Grasas Aceites
Inf U S Farmer Coop Serv
Inf Zootec
Infect Immun
Insect Biochem
Insp Rep Purdue Univ Agric Exp Stn
Inst Prod Florestais Cortica
Int Biodeterior Bull
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Izv Akad Nauk Turkm SSR, Ser Biol Nauk
Izv Vyssh Uchebn Zaved, Teknol Tekst Prom-st
J Agric Econ
J Agric Food Chem
J Agric Sci (Setagaya)
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MIRINZ Meat Indus Res Inst N Z
Misc Ext Publ N C State Univ Agric Ext Serv
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Mljekarstvo
Mod Dairy
Mod Sawmill Tech Proc Sawmill Clin
Mod Vet Pract
Mol Cell Biochem
Mol Cell Endocrinol
Mol Gen Genet (MGG)
Molineria Panaderia
Molk-Ztg Welt Milch
Monatsh Veterinarmed
Mondo Latte
Mosq News
MP Nebr Agric Exp Stn
MP Tex Agric Exp Stn
MP Univ Nebr Coll Agric Home Econ Agric Exp Stn
Mt Grow
Mycologia
Mycopathologia
Mycotaxon
Mykosen (Berlin)
Mysore J Agric Sci
N Z Agric Sci
N Z J Agric
N Z J Agric Res

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N Z J Zool
N Z Vet J
Nachrichtenbl Bayer Entomol
Nahrung
Nat & Resour
Nat Monspel, Ser Bot
Natl Cac Suc J
Natl Inst Anim Health Q (Tokyo)
Natl Maple Syrup Dig
Naturalist
Nature
Nauchno-Tekh Biull Vses Nauchno-Issled Inst Mekh Sel'sk Khoz
Nelore Pecu Trop
Nematologica
Neue Bienenzucht
New Entomol
New Sci (London)
NIAB Farmers Leafl (Natl Inst Agric Bot)
NIAB Veg Grow Leafl (Natl Inst Agric Bot)
Niger Field
Niger For Inf Bull
NIZO Versl (Ned Inst Zuivelonderz)
Nogaku Kenkyu Inst Agric Biol Sci Okayama Univ
Nogyo Kisho J Agric Meteorol
Nor Pelsdyrbl
Nor Veterinaertidskr
Nord Lantbruksekon Tidskr
Nord Mejeritidsskr
North Cent Reg Res Publ
North Log Timber Process
Norw J Bot
Not Neosan
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Novenyvedelem
Novit Bot
Nutr Metab
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Nutr Rev
Occas Pap Mauritus Sugar Ind Res Inst
Ochr Przyr
Ont Fish Wildl Rev
Orchard N Z
Org Gard Farming
Orquideologia
Ovoshtarstvo
Pac Discov
Pam Tea Res Inst East Afr
Paper (Athens Ga)
Parasitology
Parques Jard
Paysans
PB U S Natl Tech Inf Serv
Peanut J Nut World
Pecan Q
Pest Control
Pestic Biochem Physiol
Pflugers Arch
Philipp J Nutr
Phospho Potas
Photogramm Eng Remote Sensing
Physiol Plant
Phytochemistry
Phytomorphology
Phytopathology
Pig Farming
Plant Cell Physiol
Plant Chron
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Plant Physiol
Plant Sci Lett
Plant Soil
Plant Syst Evol
Planta
Planzenschutz Nachr
PM Iowa State Univ Sci Technol Ames Coop Ext Serv
Pork Ind Gaz
Poult Advis
Poult Ind
Poult Trib
Prakt Lantbruk
Prikl Biokhim Mikrobiol
Proc Annu Ariz Watershed Symp Ariz Water Resour Comm
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Pulp And Pap
Q J Crude Drug Res
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Qual Plant Plant Foods Human Nutr
Query File Commonw Bur Hortic Plant Crops
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Trop Geogr Med
Trop Sci
TVS Veg Situation Econ Res Serv U S Dep Agric
U S For Serv Res Note NC North Cent For Exp Stn
Ukr Biokhim Zh
Univ Kans Sci Bull
USDA For Serv Gen Tech Rep NC North Cent For Exp Stn
USDA For Serv Gen Tech Rep NE U S Northeast For Exp Stn
USDA For Serv Res Note PNW U S Pac Northwest For Range Exp Stn
USDA For Serv Res Note SE U S Southeast For Exp Stn
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Vet Rec
Veterinaria (Villa Obregon)
Vinifera Wine Grow J
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Visnyk Akad Nauk Ukr RSR
VM SAC (Vet Med Small Anim Clin)
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Wines Vines
Wood Sci Technol
World Crops
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Z Allg Mikrobiol
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Theoretical conformational analysis of the cyclodecapeptide antamanide [isolated from the poisonous fungus Amanita phalloides]. I. Optimum forms of fragments with intramolclar hydroe bonds. Pletnev, V Z; Gromov, E P; Popov, E M *Sov J Bioorganic Chem* 1 (3): 245-255. Ref. Mar 1975

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The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

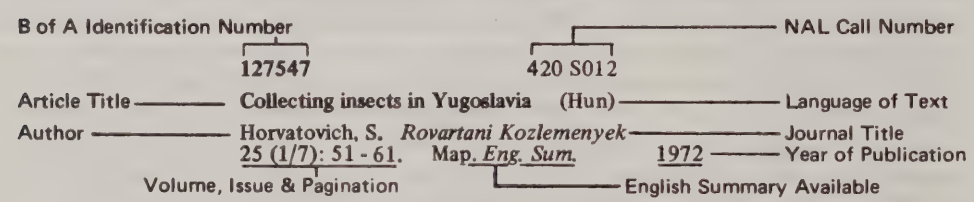
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

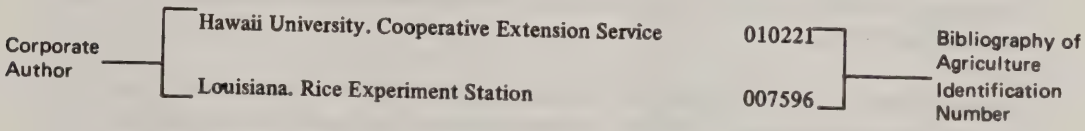
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

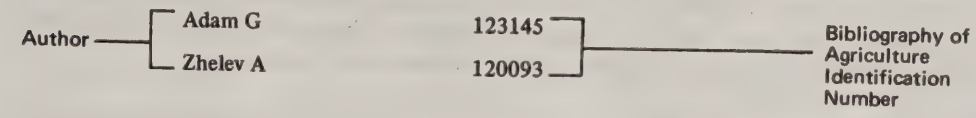
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES

Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693

The **cheese** *industry*. 227819

Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689

Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms*, published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

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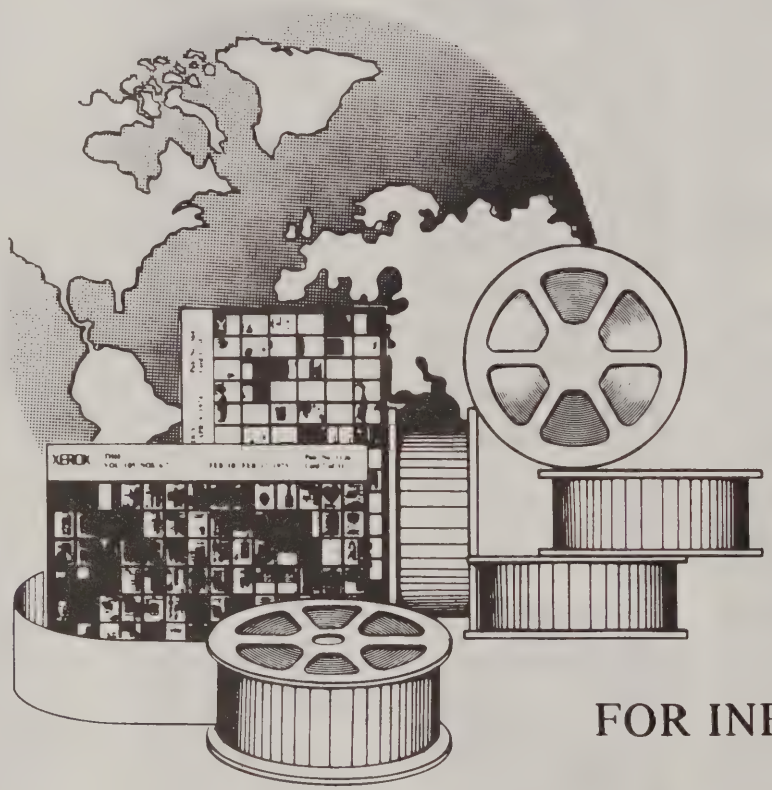
Acrida
ACS Symp Ser (Amer Chem Soc)
Acta Agron (Palmira)
Acta Biochim Pol
Acta Biol (Budap)
Acta Biol Med Ger
Acta Chem Scand Ser B Org Chem Biochem
Acta Hortic
Acta Microbiol
Acta Microbiol Sinica
Acta Pathol Microbiol Scand, Sect A Pathol
Acta Physiol Scand
Acta Vet (Belgr)
Acta Vet Scand
Acta Virol
Acta Zool (Stockh)
ADA Forecast
Adansonia
Adv Agron
Adv Cyclic Nucleotide Res
Adv Exp Med Biol
Adv Vet Sci Comp Med
ADvis Leafl East Scotl Coll Agric Edinb Sch Agric
Advis Leafl G B Minist Agric Fish Food
AE & RS Pa State Univ Dep Agric Econ Rural Soc
Afr Environ
Afr Rural Employment Pap Mich State Univ Dep Agric Econ
Agric Biol Chem
Agric Econ Rep Dep Agric Econ Mich State Univ
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric Educ
Agric Eng (St Joseph, Mich)
Agric Environ
Agric Handb U S Dep Agric
Agric Hist
Agric North Irel
Agric Tec
Agrokem Talajtan
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AID Bibl Ser Agric (U S Agency Int Dev)
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Am Nurserym
Am Potato J
Am Rock Gard Soc Bull
Am Text Rep
Am Veg Grow
Amer J Clin Nutr
An Assoc Bras Quim
An Fac Vet Urug
Anal Chem
Anim Behav
Anim Blood Groups Biochem Genet
Anim Prod
Anim Shelter Shoptalk
Ann Accad Agric Torino
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Ann N Y Acad Sci
Ann Parasitol Hum Comp
Ann Phytopathol Soc Jap
Ann Soc Entomol Que
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Annu Rep Glasshouse Crops Res Inst
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APHIS-81 U S Anim Plant Health Insp Serv
Applied Environ Microbiol
Arable Farming
Arbor Bull Arbor Found Seattle
Arch Environ Health
Arch Int Pharacodyn Ther
Arch Microbiol
Arch Pharm Ber Dtsch Pharm Ges
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Arch Toxikol
Arch Virol
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ARS-NE U S Agric Res Serv Northeast Reg
ARS-S U S Agric Res Serv South Reg
ARS-W U S Agric Res Serv West Reg
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Aust For Ind J
Aust J Agric Res
Aust J Bot
Aust J Chem
Aust J Ecol
Aust J Plant Physiol
Aust J Zool Suppl Ser Suppl
Aust Vet J
Australas Beekeep
Beret Faellesudvalg Statens Plant
Beret Statens Husdyrbrugsudvalg Landokonomisk Forsogslab
Better Crops Plant Food
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Biatas, The Tillage Farmer
Bienenvater
Big Farm Manage
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Biochem J
Biochem Syst Ecol
Biochemistry (Easton)
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Biochim Biophys Acta
Bioelectrochem Bioenerg
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Biol Neonate
Biol Zentralbl
Biomed Express
Biophysics
BioScience Am Inst Biol Sci
Biotechnol Bioeng
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Boll Soc Geogr Ital
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Br Food J
Br Vet J
Brauwelt
Brew Dig
Bull A Ariz Univ Ext Serv
Bull Agric Chem Insp Stn (Tokyo)
Bull Am Mus Nat Hist
Bull Bot Soc Bengal
Bull Commonw Bur Pasture Field Crops Commonwealth Agric Bur
Bull Conn Univ Ext Serv
Bull Environ Contam Toxicol
Bull Exp For Natl Taiwan Univ
Bull Fac Agric Tamagawa Univ
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Bull Sci Sect A Sci Nat Tech Med Akad Savet FNRJ
Bull Soc Chim Belg
Bull Soc Zool Fr
Bull Torrey Bot Club
Bull Univ Maine Orono Life Sci Agric Exp Stn
Bull Wash State Univ Coop Ext Serv
Bull World Health Organ
Butter Fat Solids
Buvar
C Nev Univ Coop Ext Serv
Can Agric
Can Entomol
Can Farm Econ
Can Field Nat
Can For Ind
Can Home Econ J
Can J Anim Sci
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Can J Soil Sci
Can J Zool
Can Plant Dis Surv Can Dep Agric Res Branch
Cane Grow Q Bull Queensl Bur Sugar Exp Stn
Cann Trade
Carbohydr Res
Catena
Cattlemen
Cell Immunol
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Centralbl Gesamte Forstwes
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Chem N Z
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CNI Weekly Rep
Cocoa Grow Bull
Coltiv G Vinic Ital
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Commun Soil Sci Plant Anal
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Compost Sci
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Crops Soils
Cryobiology
Ctry Life
Ctry Living
Curr Sci
Cytobiologie
Cytogenet Cell Genet
Dairy Farmer Dairy Beef Prod
Dairy Top
Dan Erhversfjerkrae
Dan Pelsdyravl
Dan Rev Game Biol
Darb Tr Ser C Ser V Liet TSR Mokslu Akad
Dep Inf Rep Texas A M Univ Dep Agric Econ Rural Soc
Dev Biol
Diabetes
Diss Bot
Div Soils Tech Pap C S I R O
Doc Vet
Dokl Akad Nauk SSSR
Dokl Akad Nauk Tadzh SSR
Dokl Bot Sci Akad Nauk S S S R
Dokl TSKHA Timiriazevsk S-kh Akad
DSAC Dixon Springs Agric Cent
Dtsch Pelztierz
E H P (Environ Health Perspect)
Earth Surf Processes
Ecol Model
Ecol Res Ser
Econ Branch Publ Can Dep Agric Econ Branch
Econ Inf Rep N C State Univ Dep Econ
Econ Plann
Edesipar
Egg Ind
Elelmiszerviz Kozl
EM Coop Ext Serv Coll Agric Wash State Univ
EM U S For Serv
Entomol Exp Appl
Entomol Mon Mag
Entomol Rec J Var
Entomol Z
Environ Child Health
Environ Entomol
Environ Prot Technol Ser EPA-R2
Environ Res
Environ Southwest
Erdo
Ernahr Umsch
ERS U S Dep Agric Econ Res Serv
ESS Ohio State Univ Dep Agric Econ Rural Sociol
Essenze Deriv Agrum
Estuarine Coastal Mar Sci
Euphytica
Eur J Biochem
Eur Rev Agric Econ
Eurofruit
Evolution
Exp Cell Res
Exp Mol Pathol
Experientia
Explor Econ Hist
Ext Bull Mich State Univ Coop Ext Serv
Ext Circ Oreg State Univ Ext Serv
Ext Leafl L Ohio State Univ Ext Serv
Ext Stud Pa State Univ Ext Serv
F. O. Licht's Int Sugar Rep
Farm Chem
Farm Econ (Pa State Univ)
Farm Manage
Farm Policy
Farmers Bull U S Dep Agric
Farmers Rep Leeds Univ Dep Agric Econ
Farming Bus
FAS-M U S Foreign Agric Serv
FDA Consumer
FEBS Lett (Fed Eur Biochem Soc)
Fed Proc Fed Am Soc Exp Biol
Feedlot Manage
Feedstuffs
Feld Wald Wasser Schweiz Jagdztg
Fert Mark News
Fert News
Fert Prog
Fert Situation
Fert Solu
Field Stn Rec Commonw Sci Ind Res Organ
Fjorfe
Flora West Pak
Florists Rev
Fluoride
Flussiges Obst
Folia For
Folia Microbiol
Food and Nutr News
Food Eng
Food Management
Food Process Ind
Food Prod Dev
Food Serv Mark
Food Technol

Food Technol Aust
Food Technol Rev
For Chron
For Prod J
For Tech Pap For Comm (Victoria)
Forecast Home Econ
Foreign Agric Circ Citrus FCF U S Foreign Agric Serv
Foreign Agric Circ FOP U S Foreign Agric Serv
Foreign Agric Circ, Honey FHON (U S Dep Agric)
Foreign Agric Trade U S Dep Agric Econ Res Serv
Foreign Agric U S Foreign Agric Serv
Foreign Policy
Forpride Dig
Forsch Berat, Reihe B Wiss Ber Landwirtsch Fak Univ Bonn
Forsch Berat, Reihe C, Wiss Ber Diskussionsbeitr
Forsk Prakt
Forstwiss Centralbl
Fortschr Zool
Fresenius Z Anal Chem
Freshwater Biol
Front Plant Sci
G Allevatori
Ga Vet
Gabonaipar
Garcia Orta Ser Estud Agron
Gart Kleintierzucht, C Imker
Gart Prax
Gazdalkodas
Genet Biol Drosophila
Genet Res
Genetics
Geochim Cosmochim Acta
Gesunde Pflanz
Ghana J Sci
Giessen Schriftenr Tierz Haustiergenet
Givaudan Flavor
Glean Bee Cult
Glimpses in Plant Research
Gorsko Stopanstvo
Grasas Aceites
Great Lakes Entomol
Grocery Commun
Gulf Coast Cattlem
Haryana J Hortic Sci
Hereditas
Hidrol Kozl
Histochem J
Hoards Dairym
Home Econ Res Rep Agric Res Serv U S Dep Agric
Home Gard Bull U S Dep Agric
Hopfenrundschau
Hoppe Seylers Z Physiol Chem
Hospitals
Human Ecol Forum
Hung Agric Rev
Hutoipar
IDIA Suppl
Idojaras
Immergrune Blatter
Immunogenetics
Immunolo Commun
Immunology
In Agrotekhnika i semenovodstvo kartofelia. F I. Bobryshev, Ed.
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Ind Aliment Anim
Ind Azucar
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Ind Obst Gemuseverwert
Indian Cof
Indian Econ Rev
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Indian J Agric Econ
Indian J Agric Sci
Indian J Anim Health
Indian J Anim Prod
Indian J Anim Sci
Indian J Ext Educ
Indian Poult Gaz
Indian Pulp Pap
Indian Silk
Indian Vet J
Indus
Inf Ref CC-X Chem Control Res Inst
Inf Ser Bull N Z Dep Sci Ind Res
Inf Tec Argent Repub Estac Exp Agropecu Pergamino
Inorg Chem
Insecta Matsumurana
Instit Distrib
Instit/vol Feeding
Int Fruit World
Int J Biochem
Int J Parasitol
Int J Peptide Protein Res
Int J Syst Bacteriol
Int Pest Control
Ir Vet J
Irrig Power
Izv Vyssh Uchebn Zaved Lesn Zh
J Agric Econ Dev
J Agric Eng
J Agric Food Chem
J Agric Soc Trinidad Tobago
J Ala Acad Sci
J Am Chem Soc
J Am Diet Assoc
J Am Vet Med Assoc
J Anat
J Anim Sci
J Appl Ecol
J Appl Polym Sci
J Assoc Off Anal Chem
J Biochem (Tokyo)
J Bioenergetics Biomembranes
J Biol Chem
J Bombay Nat Hist Soc
J Br Grassl Soc
J Can Inst Food Sci Technol
J Cell Biol
J Chem Ecol
J Chromatogr
J Chromatogr Sci
J Clin Microbiol
J Coffee Res
J Comp Pathol
J Comp Physiol
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J Econ Entomol
J Environ Econ Manage
J Environ Manage
J Environ Qual
J Exp Bot
J Exp Mar Biol Ecol
J Exp Zool
J Fac Agric Shinshu Univ
J Fac Sci Hokkaido Univ, Ser VI Zool
J Flour Anim Feed Milling
J Food Distrib Res
J Food Sci
J Food Sci Tech (Tokyo)
J For
J For Hist
J For Suisse
J Ga Entomol Soc
J Gen Microbiol
J Gen Physiol
J Gen Virol
J Hortic Sci
J Hydraul Div Proc Am Soc Civ Eng
J Hydraul Res
J Hyg Epidemiol Microbiol Immunol
J Indian Acad Wood Sci
J Indian Chem Soc
J Indian Soc Soil Sci
J Insect Physiol
J Int Res Commun Med Sci
J Irrig Drain Div Proc Am Soc Civ Eng
J Jap Soc Hortic Sci
J Jap Vet Med Assoc
J Kans Entomol Soc
J Lab Clin Med
J Leisure Res
J Lepid Soc
J Macromol Sci, Chem
J Mar Biol Assoc U K
J Math Biol
J Membr Biol
J Microsc Biol Cell
J Milk Food Tech
J Milk Food Technol
J Minn Acad Sci
J Mol Biol
J Nematol
J Nutr
J Nutr Sci Vitaminol
J Org Chem
J Pediatrics
J Pestic Sci
J Physiol
J Physiol (Paris)
J Polym Sci Polym Phys Ed
J Range Manage
J Reprod Fertil
J Res Lepid
J S Afr Vet Assoc
J Sch Health
J Sci Food Agric
J Small Anim Pract
J Soil Conserv Serv N S W
J Soil Water Conserv
J Steroid Biochem
J Taiwan Agric Res
J Tenn Acad Sci
J Text Inst
J Text Mach Soc Jap
J Toxicol Environ Health
J Wildl Dis
Jap J Appl Entomol Zool
Jap J Breed
Jap J Genet
Jap J Med Sci Biol
Jap J Nutr
Jap J Vet Sci
Jap Poult Sci
Jarmuvek, Mezogazd Gepek
JARQ (Jap Agric Res Q)
Jordbruksekon Medd
Journal of Human Nutrition
Julk Valt Maitotalouskoelaitos
Kajian Vet
Kalikasan Philipp J Biol
Kartofel' Ovoshchi
Kenya Cof
Kitchen Planning
Konchu
Kosmos
Kraftfutter
Kumamoto J Sci, Ser B, Sec 2 Biol
Lab Anim Sci
Lab Invest
Lab Pract
L'Action Vet
Lal Baugh J
Lalahan Zootek Arastirma Enst Derg
Lancet
Land Econ
Landbo Nyt
Landbouwkd Tijdschr
Landbrukstidende
Landwirtsch-Angew Wiss Bundesminist Ernahr Landwirtsch Forsten Ger (Fed Repub)
Lantbrukshogsk Medd, Ser A
Lantmannen
Laporan Rep Lembaga Penelitian Hasil Hutan
Lav Arroz
Leafl Coop Ext Serv Univ Arkansas Div Agric
Leafl Coop Ext Serv Univ Ga Coll Agric
Leafl North Irel Advis Serv Dep Agric
Leafl Pa State Univ Ext Serv
Leafl U S Dep Agric
Leben Erde
Lebensm Ind
L'elevage
Leopoldina
Lesn Khoz
L'Hortic Fr
Life Sci
Livest Farming
Loggers Handb Pac Logging Congr
Lotta Antiparassit
LSU Wood Util Notes (La State Univ)
Luonnon Tutkija
M A F E S Res Highlights (Miss Agric For Exp Stn)
M Agric Ext Serv Univ Minn
Maataloushallinnon Aikak
Macch Mot Agric
Madras Agric J
Maelkeritidende
Malay Nat J
Manage Forum
Mar Biol
Mar Sci Commun
Maslozhir Prom-st'
Mater Poznan Fauny Flory
Meat Ind (Mill Val)
Mech Ageing Dev
Med Parazitol Parazit Bolezn
Med Weter
Medd Jordbruk Utredningsinst
Medd Jordbruktek Inst
Meded Proefstn Fruitteelt Wilhelminadorp
Media & Methods
Medical Opinion
Meheszet
Meieriposten
Mek Elektrif Sotsialisticheskogo Sel'sk Khoz
Meld Nor Landbrukshogsk
Melissocomike Hellas
Mem Fac Agric Hokkaido Univ
Mem Gouv Que Minist Terres Forets Serv Rech
Mem Queensl Mus
Mem Soc Entomol Ital
Metab Clin Exp
Methods Cell Physiol
Mex For
Mex Sus Bos
Mezogazd Gepesitesi Tanulmanyok Mezogazd Gepkiserleti Intez
Mezogazd Tech
Mich Bot
Mich Farm Econ
Microb Ecol
Microbiol Esp
Microbiology
Micron
Microsc Acta
Mikrochim Acta
Milk Ind
Misc Publ Md Agric Exp Stn
Misc Publ Okla Agric Exp Stn
Mitt DLG (Dtsch Landwirtsch Ges)
Mitt Dtsch Dendrol Ges
Mitt Eidg Anst Forstl Versuchswes
Mod Packag
Mol Biol (Kiev)
Mol Gen Genet (MGG)
Molk-Ztg Welt Milch
Monatsschr Brau
Monit Zool Ital Ital J Zool New Ser
Monogr INIA (Inst Nac Invest Agrar)
Mosq Syst
Moths & Butterflies G B Irel
Mt Grow
Mutat Res
N Z Fert J
N Z J Exp Agric
N Z J For Sci
N Z Soil News
N Z Tob Grow J
N Z Vet J
Nat & Resour
Nat Can
Nat Res J
Natl Agric Outlook Conf
Natl Wool Grow
NATO Adv Study Inst Ser Ser A Life Sci
Nature
Naturwissenschaften
Nauchn Tr Vses Nauchno-Issled Inst Fiziol Biokhim Pitan S-kh Zhivotn
Nauchno-Tekh Biull Vses Nauchno-Issled Inst Mekh Sel'sk Khoz
Nenpo Annu Rep Kanto For Tree Breed Stn
Neth J Agric Sci
Neth J Zool
New Engl J Med
New Phytol
New Sci (London)
Nippon Sochi Gakkai Shi
Nor Pelsdyrbl
Nor Skogind
Northwest Sci
Not Neosan
Nova Acta Leopold
Novenyvedelem
Nucleic Acids Res
Nucleus (Karachi)
Nutr Action
Nutr News
Nutr Rep Int
Nutr Rev
Nutr Today
Oecologia
Off Gaz U S Pat Off Pat
Ohio J Sci
Oikos
Okla Curr Farm Econ
Oleagineux

LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Onderstepoort J Vet Res
Opred Faune SSSR
Orchid Dig
Orquideologia
Osn Nematodologii
Outstate Test Circ Nebr Agric Exp Stn
Pac Hortic
Pag Bull
Pak J For
Pak J Zool
Pap Am Soc Agric Eng
Pap Puu
Pathol Biol
PB U S Natl Tech Inf Serv
Pecan South
Pediatrics
Personnel J
Pestic Sci
Pflugers Arch
Philipp J Vet Med
Photochem Photobiol
Photosynthetica
Physiol Plant
Phytocoenologia
Phytopathology
Plant Physiol
Plant Sci Lett
Plant Soil
Plant Syst Evol
Planta
PM Iowa State Univ Sci Technol Ames Coop Ext Serv
PNW Bull Oreg State Univ Coop Ext Serv
Poljopr Sumar
Potato Res
Poult Advis
Poult Ind
Poult Notes N S W Dep Agric
Poult Trib
Power Farming
Power Farming Mag
Pr Inst Lab Badaw Przem Spozyw
Pract Vet
Prairie Farmer
Prakt Lantbruk
Prevention
Prikl Biokhim Mikrobiol
Principes
Problemy osvoeniia pustyn'
Proc Annu Congr S Afr Sugar Technol Assoc
Proc Annu Meet Can Soc Agron
Proc Annu Meet Utah Mosq Abate Assoc
Proc Assoc Am Geogr
Proc Crop Sci Soc Jap
Proc Fert Soc Lond
Proc Fla State Hortic Soc
Proc Indian Acad Sci, Sec B
Proc Iowa Acad Sci
Proc Natl Sci Counc
Proc Northwest Wood Prod Clin
Proc Nutr Soc
Proc South Pasture Forage Crop Imp Conf
Prod Res Rep Agric Res Serv U S Dep Agric
Prof Nutritionist
Prof Pap U S Geol Surv
Prog Farming
Prog Food Nutr Sci
Prog Histochem Cytochem
Prog Hortic
Prog Water Technol
Proj Rep P N Z Agric Eng Inst
Protoplasma
Przem Spozyw
Publ Can Dep Agric
Publ Health Rep
Publ Miss State Univ Coop Ext Serv
Publ Natuurhist Genoot Limburg
Publ 4 Landbouw-Econ Inst Afd Tuinbouw
Pulp & Pap Can
Pure Appl Chem
Q J Chin For
Q J For
Q Rev Agric Econ Aust Bur Agric Econ
Quad Merceol Ist Merceol Univ Bologna
Queensl Agric J
Quick Frozen Foods
R Nev Agric Exp Stn
R T I A (Rev Tech Econ Ind Aliment)
Radiobiology
Rapp Inst Virkeslara Skogshogsk (Stockh)
Rapp Proefstn Groenteteelt Vollegrond Ned
Rapp Proefstn Rundveehouderij Recl Med Vet
Recovery of Nutrients from Animal Wastes; Conference Proceedings International Symposium Livestock Wastes
Redia G Zool
Rep Fla Sea Grant Program
Rep Water Resour Cent Calif Univ
Rep Water Resour Res Inst Univ N C
Res Bull Mo Agric Exp Stn
Res Bull Ohio Agric Exp Stn
Res Circ Ohio Agric Res Dev Cent
Res Life Sci
Res Note INT U S Dep Agric For Serv Intermt For Range Exp Stn
Res Rep Ga Exp Stn
Res Rep Ky Agric Exp Stn
Res Rep Mich State Univ Agric Exp Stn
Res Rep P Okla Agric Exp Stn
Res Vet Sci
Residue Rev
Resour Bull PNW USDA For Serv Pac Northwest For Range Exp Stn (U S Dep Agric)
Respir Physiol
Restaurant Bus
Rev Agric (Piracicaba)
Rev Cafetalera
Rev Criad
Rev Direito Agrar
Rev ESSO Agric
Rev Ferment Ind Aliment
Rev Lait Fr
Rev Mark Agric Econ N S W Dep Agric Div Mark Agric Econ
Rev Univ Cent Venez Fac Agron
Rev Vet Can
Rhod J Agric Res
Rice J
Rilancio Agric Vet Zootec
Riso
Riv Econ Agrar
Riv Parassitol
Riv Patol Veg
Riv Stor Agric
Rozpr Nauk Akad Roln Warszaw
S Afr J Anim Sci
S Afr J Sci
Samaru Agric Newsl
Scand J Immunol
Sch Foodserv J
Schweiz Landtech Dtsch Ausg
Sci Am
Sci Chron
Sci Cult
Sci Hortic
Science
Scientific American
Seker
Ser CE Int Cent Trop Agric
Ser Sci Occas Pap
SIADES Soc Ing Agron El Salv
Silva Fenn
Smaskrift Landbruksdep Opplysningstjenesten (Norway)
Snack Food
Sobre Deriv Cana Azucar
Sociobiology
Socio-Econ Inf Ohio Agric Rural Communities
Sociol Ruralis
Soil Assoc
Soil Biol Biochem
Soil Sci
Soil Water
South Indian Hortic
Sov Genet
Sov Plant Physiol
Sov Soil Sci
Soybean Dig
Span
Spec Circ Pa State Univ Ext Serv
Staff Welfare Catering
State Vet J
Stud Biol Inst Biol (Lond)
Substitute Chem Program
Subtrop Kul't
Succulenta
Sugar Bull
Sugarbeet
Sugarcane Farmers Bull
Suinicoltura
Suomen Elainlaakaril Fin Veterinartidskr
Supervisory Management
Sven Papperstidn
Sven Vet Tidn
Sver Skogvardsforb Tidskr
Syst Zool
TAG (Theor Appl Genet)
Tappi (Tech Assoc Pulp Paper Ind)
Tec Molit
Tech Bull Maine Life Sci Agric Exp Stn
Tech Lait
Tech Rep Ser World Health Organ
Teho
Tek Bul Serisi Ormancilik Arastirma Enst
Terminol Bull FAO
Tetrahedron
Tidskr Sver Utsadesforen
Tidsskr Landokon
Tierra
Tijdschr Diergeneeskd
Tijdschr Entomol
Tob Res
Todays Educ
Town Milk
Toxicology
Tr Vses Nauchno-Issled Inst Mekh Sel'sk Khoz
Training
Training Dev J
Trans Biochem Soc
Trans Br Mycol Soc
Trends Biochem Sci
Trop Grassl
Turf Bull
Turrialba
U S Agric Res Serv (Reprints of articles by ARS employees)
U S D A For Serv Resour Bull NE (U S Dep Agric Northeast For Exp Stn)
U S Dep Agric For Serv Res Pap SO U S South For Exp Stn
U S For Serv Res Note NC North Cent For Exp Stn
Ugeskr Agron Hortonomer Forstkandidater Licentiater
USDA For Ser Res Note NE (U S Dep Agric Northeast For Exp Stn)
USDA For Serv Gen Tech Rep NC North Cent For Exp Stn
USDA For Serv Res Note PNW U S Pac Northwest For Range Exp Stn
USDA For Serv Res Note RM U S Rocky Mt For Range Exp Stn
USDA For Serv Res Note SE U S Southeast For Exp Stn
USDA For Serv Res Pap PNW U S Pac Northwest For Range Exp Stn
USDA For Serv Res Pap RM U S Rocky Mt For Range Exp Stn
USDA For Serv Res Pap SE U S Southeast For Exp Stn
USDA For Serv Resour Bull NC (U S Dep Agric North Cent For Exp Stn)
Usp Sovrem Biol
Ustred Vyzk Ustav Rostl Vyroby, Ved Pr
Va For
Var Foda
Vara Palsd
Vaxtskyddsnotiser
Vet Bull
Vet Econ
Vet Pract
Vet Rec
Veterinaria (Sarajevo)
Victorian Hortic Dig
Victorian Nat
Vie Milieu Ser A: Biol Mar
Vini d'Italia
Virology
VM SAC (Vet Med Small Anim Clin)
WAS U S Dep Agric Econ Res Serv 40 01
Water Air Soil Pollut
Water Resour Bull
Whats New Plant Physiol
Wilhelm Roux Arch Entwicklungsmech Org
Wine Rev
Wines Vines
Wirtschseig Futter
Wood Sci
World Crops
World Rev Anim Prod
Worlds Poult Sci J
Xenobiotica
Yearb Agric (U S Dep Agric)
Z Lebensm Unters Forsch
Z Pflanzenzucht
Z Tierpsychol
Z Versuchstierkd
Zb Bioteh Fak Ljublj Inst Gozdno Lesn Gospod
Zentralbl Bakteriol Parasitenkd Infekionskr Hyg, I Abt Orig, reihe A Med Mikrobiol Parasitol
Zentralbl Bakteriol Parasitenkd Infektionskr Hyg II Naturwiss Abt
Zhivotnovodstvo
Zool Anz
Zool Jahrb, Abt Anat Ontog Tiere
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MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

281.9 P38
Adults in Pennsylvania; state summary [Social indicators for human services]. Gingrich, N B; Madden, J P; Stokes, C S; Crawford, C O; Cordes, S M; Lembeck, S M; Trask, J; Grossmann, J R; Lange, L S; Pennsylvania Agricultural Experiment Station; Pennsylvania State University Dept. of Agricultural Economics and Rural Sociology *AE & RS Pa State Univ Dep Agric Econ Rural Soc* 121, 113 P. Maps. Mar 1976

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PHYSIOLOGY AND BIOCHEMISTRY OF FIELD CROPS

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Autonomous and induced mechanisms of flowering regulation in plants [Tobacco]. Chailakhyan, M Kh *Sov Plant Physiol* 22 (6): 1111-1125. Ref. Nov/Dec 1975 (Transl 1976)

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Changes in the rate of photophosphorylation in corn seedlings under the influence of gibberellin and kinetin. Yakushkina, N I; Pushkina, G P *Sov Plant Physiol* 22 (6): 994-999. Ref. Nov/Dec 1975 (Transl 1976)

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Changes in volume of the mitochondria of wheat roots under the influence of EDTA [ethylenediamine tetracetic acid] and bivalent cations. Zaitseva, M G *Sov Plant Physiol* 23 (2): 220-225. Ref. Mar/Apr 1976

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Nitrogen-fixing activity of lupine nodules in connection with the content of fixation products in them [Rhizobium lupini]. Yagodin, B A; Savich, M S; Il'yasova, V B; Grishina, L G *Sov Plant Physiol* 22 (6): 1050-1053. Nov/Dec 1975 (Transl 1976)

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Ultrastructure of cells on the embryos of viable and unviable rice seeds in the course of swelling. Vishnyakova, I A; Krasnook, N P; Povarova, R I; Morgunova, E A; Bukhtoyarova, Z T *Sov Plant Physiol* 23 (2): 307-311. Ref. Mar/Apr 1976

PHYSIOLOGY AND BIOCHEMISTRY OF HORTICULTURAL CROPS

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Oligosaccharides of Passiflora incarnata. Gavasheli, N M; Moniava, I I; Eristavi, L I *Chem Nat Compd* 11 (1): 84. Jan/Feb 1975 (Transl 1976)

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Flavonoid complex of green and etiolated pea (Pisum sativum L.). Kof, E M; Laman, N A; Kefeli, V I *Dokl Bot Sci Akad Nauk S S S R* 226/228: 63-66. Ref. Jan/June 1976

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Localization of APTases [adenosine triphosphatase] in cellular structures assimilating tissues in amaranth leaves [Amaranthys retroflexus]. Bil', K YA; Belobrodskaya, L K; Karpilov, YU S *Dokl Bot Sci Akad Nauk S S S R* 225/228: 16-19. Ref. Jan/June 1976

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Regulatory role of blue light in the formation of the photosynthetic electron transfer chain in the chloroplasts of pea plants. Drozdova, I S; Grishina, G S; Voskresenskaya, N P *Dokl Bot Sci Akad Nauk S S S R* 226/228: 6-9. Ref. Jan/June 1976

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Assimilation of nitrogen by plants under conditions of phosphorus deficiency [Pumpkins]. Chernyavskaya, T N; Tueva, O F *Sov Plant Physiol* 22 (6): 1054-1059. Ref. Nov/Dec 1975 (Transl 1976)

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Characteristics of reactions of the violaxanthin cycle induced by near and far red light [Hydrangea hortensis]. Sapazhnikov, D I; Popova, I A; Maslova, T G; Koroleva, O Ya *Sov Plant Physiol* 22 (6): 969-973. Ref. Nov/Dec 1975 (Transl 1976)

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Localization of the mechanism of growth-inhibiting action of Al3+ [aluminum ions] in elongating [pea] cell walls. Klimashevskii, E L; Dedov, V M *Sov Plant Physiol* 22 (6): 1040-1046. Ref. Nov/Dec 1975 (Transl 1976)

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Oxidation of lipid components in isolated [pea] chloroplasts under the influence of light: substrates and products of lipid peroxidation. Rubin, B A; Merzlyak, M N; Yuferova, S G *Sov Plant Physiol* 23 (2): 214-219. Ref. Mar/Apr 1976

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Secretion of liquid drops by the [stomatal] guard cells [Onions, Tradescantia, Rumex]. Kubichek, S A *Sov Plant Physiol* 23 (2): 346-347. Mar/Apr 1976

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Some aspects of practical use of kinetin [Potatoes]. Artamonov, V I *Sov Plant Physiol* 22 (6): 1126-1132. Ref. Nov/Dec 1975 (Transl 1976)

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Structural changes of the chloroplasts in connection with changes in the rate of photosynthesis as a result of dehydration of the leaf [Beans]. Kurkova, E B *Sov Plant Physiol* 22 (6): 981-986. Ref. Nov/Dec 1975 (Transl 1976)

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Study of the pure productivity of photosynthesis in the long cycle of potato development. Trinkler, YU G *Sov Plant Physiol* 23 (2): 338-341. Ref. Mar/Apr 1976

PHYSIOLOGY AND BIOCHEMISTRY OF FOREST TREES

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The anomaly of female cones of the Siberian stone pine (Pinus sibirica Du Tour) as a possible form of apomixis. Minina, E G; Larionova, N A *Dokl Bot Sci Akad Nauk S S S R* 226/228: 41-42. Ref. Jan/June 1976

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Manganese-oxidizing microorganisms [Metallogenium]—inhabitants of plant surfaces [Betula verucosa, Quercus robur, Populus tremula, Picea excelsa]. Bolotina, I N; Mirchink, T G *Microbiology* 44 (5): 843-847. Ref. Sept/Oct 1975 (Transl 1976)

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Changes in the light curves of photosynthesis with aging in the leaf of Norway maple [Acer platanoides]. Malkina, I S *Sov Plant Physiol* 23 (2): 208-213. Ref. Mar/Apr 1976

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Characteristics of the initial stage of the Sigmoid curve of root growth [Quercus robur seedlings]. Kovalev, A G; Obrucheva, N V *Sov Plant Physiol* 23 (2): 290-295. Ref. Mar-/Apr 1976

HORTICULTURAL CROPS—CULTURE

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Influence of preplanting gamma irradiation on the biology and yield of cucumbers. Zham'yansuren, D; Zhugder, A *Radiobiology* 15 (5): 205-207. 1975 (Transl.) June 1976

PLANT FUNGUS DISEASES AND CONTROL

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Investigation of the influence of fungicides on the oil content of cotton seeds and the quality of the oil. Radzhabov, S F; Umarov, A U *Chem Nat Compd* 11 (2): 244-245. Mar-/Apr 1975 (Transl 1976)

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Sporulation of Puccinia graminis f. Sp. Tritici [wheat black-stem rust] in axenic culture. Mazin, V V; Andreev, L N; Shashkova, L S *Dokl Bot Sci Akad Nauk S S S R* 226/228: 31-33. Ref. Jan/June 1976

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Effect of ultraviolet on Phytophthora infestans (Mont.) De Bary. II. Effect on pathogenicity [Potatoes, resistance genes]. D'yakov, YU T; Zav'yalova, L A; Kuzovnikova, T A; Metlitskii, L V; Ozeretskovskaya, O L; Yurganova, L A *Sov Genet* 11 (6): 668-672. Ref. June 1975 (Transl.) 1976

QH431.A1G43
Inheritance of immunity to downy mildew [Plasmopara helianthi] in the sunflower. Pogorletskii, B K; Geshele, E E *Sov Genet* 11 (2): 288-294. Ref. Mar 1975 (Transl.) 1976

QH431.A1G43
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Effect of a water deficit on the direction of phosphorus and nuclein metabolism in two wilt-resistant varieties of cotton. Samiev, Kh S; Marfina, K G *Sov Plant Physiol* 22 (6): 1106-1110. Ref. Nov/Dec 1975 (Transl 1976)

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On the mechanism of peroxidase activation during infection in resistant and susceptible plants [Cabbage, Botrytis cinerea]. Aksenova, V A; Kozhanova, O N *Sov Plant Physiol* 23 (2): 333-337. Ref. Mar/Apr 1976

PLANT VIRUS DISEASES AND CONTROL

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Etiology of yellows diseases in plants of wild flora [Mycoplasma-like organisms]. Surgucheva, N A *Dokl Bot Sci Akad Nauk S S S R* 226/228: 3-5. Jan/June 1976

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Ridding tobaccos of the mycoplasmic infection big bud by the method of tissue culturing. Fedotina, V L; Krylova, N V *Dokl Bot Sci Akad Nauk S S S R* 226/228: 49-51. Jan/June 1976

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Activity and localization of succinyl-CoA [coenzyme A]-synthetase in tobacco leaves during viral infection. Ladygina, M E; Tukeeva, M I; Aksenov, V P *Sov Plant Physiol* 22 (6): 1100-1105. Ref. Nov/Dec 1975 (Transl 1976)

MISCELLANEOUS PLANT DISEASES, INJURIES AND CONTROL

442.8 R11AE
The role of tocopherol in radiation damage to Pisum sativum [Peas]. Stepanyan, L G; Avakyan, TS M *Radiobiology* 15 (6): 188-191. 1975 (Transl.) June 1976

WEEDS AND HERBICIDES

QH431.A1G43
Immunity of sunflower to broom rape [Orobanche cumana]. Pogorletskii, B K; Geshele, E E *Sov Genet* 11 (7): 817-824. Ref. July 1975 (Transl.) 1976

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The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

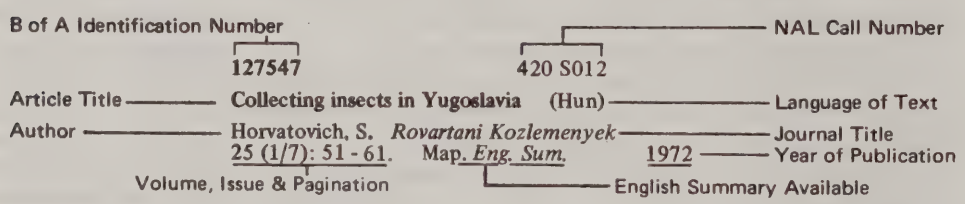
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

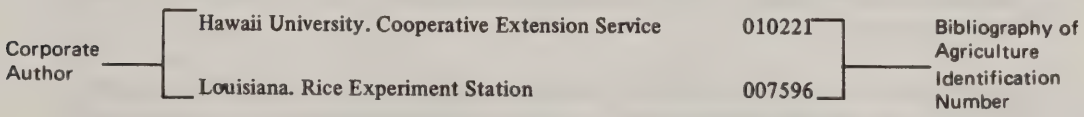
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

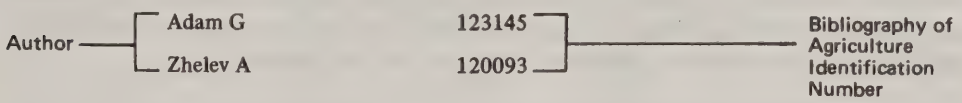
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES

Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693

The **cheese** *industry*. 227819

Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689

Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms,* published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

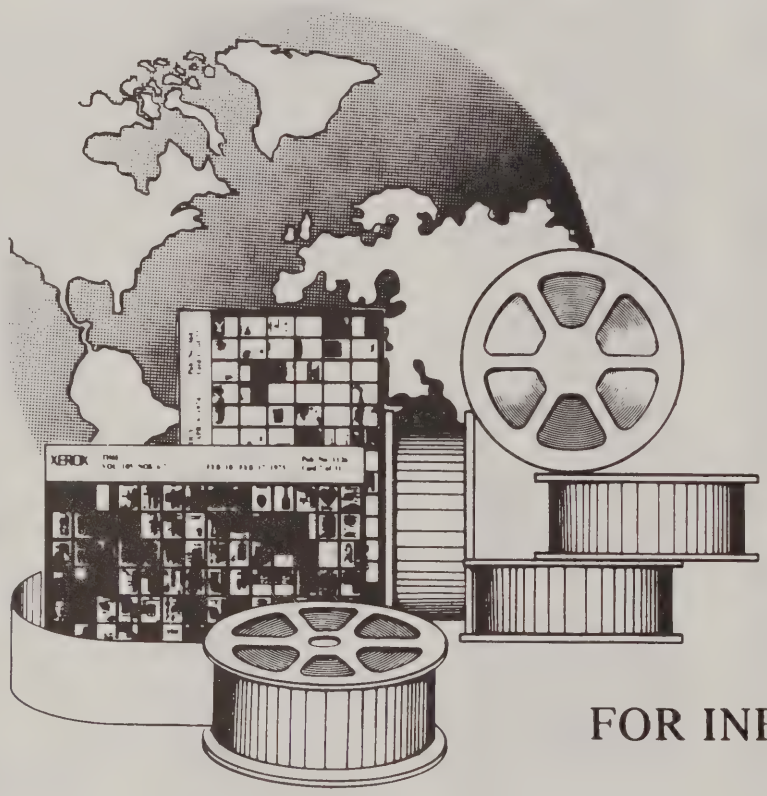
LIST OF JOURNAL TITLE ABBREVIATIONS CITED

A A G Bijdr Wageningen Landbouwhogesch Afd Agrar Geschiedenis
A Coop Ext Programs Univ Wis
Acta Agric Scand
Acta Biol Iugosl, Ser B Mikrobiol
Acta Bot Neerl
Acta Cient Venez
Acta Entomol Bohemoslov
Acta Histochem
Acta Microbiol Sinica
Acta Morphol
Acta Parasitol Pol
Acta Physiol
Acta Soc Bot Pol
Acta Trop
Acta Univ Agric, Fac Silvic
Acta Vet (Budap)
Acta Zool Lilloana
ADA Forecast
Adv Appl Microbiol
Adv Insect Physiol
Adv Mar Biol
Adv Microb Physiol
Adv Ser Agric Sci
Advis Leafl G B Minist Agric Fish Food
Afrikanerbees J
Agrar Rundsch
Agrartort Sz
Agrekon
Agric Agroind J
Agric Biol Chem
Agric Bull Alberta Univ Coll Agric
Agric Bull Saga Univ
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric Educ
Agric El Salv
Agric Handb U S Dep Agric
Agric Inf Bull U S Dep Agric
Agric Libr Inf Notes
Agric Mark (Nagpur)
Agric Merch
Agric Situat U S Dep Agric Stat Rep Serv
Agrichem Age
Agrociencia
Agrohemija
Agrokem Talajtan
Agron Dep Mimeogr Ser Ohio Agric Res Dev Cent Dep Agron
Aktuel Lantbrukshogsk (Upps)
Allg Dtsch Imkerztg
Allg Forstztg
Almond Facts
Am Bee J
Am Dairy Rev
Am Fern J
Am For
Am Heart J
Am J Agric Econ
Am J Bot
Am J Clin Nutr
Am J Enol Vitic
Am J Public Health
Am J Trop Med Hyg
Am Nurserym
Am Potato J
Am Veg Grow
Am Zool
Amer J Clin Nutr
Anal Biochem
Anat Histol Embryol
Anat Rec
Angew Bot
Angew Parasitol
Ann Bot Fenn
Ann Entomol Soc Am
Ann Fac Med Vet Pisa
Ann Genet Sel Anim
Ann Geogr
Ann Ist Sper Zootec (Rome)
Ann Microbiol
Ann Mo Bot Gard
Ann Pharm Fr
Ann Phytopathol Soc Jap
Ann Sci
Ann Sci For
Ann Soc Roy Zool Belg
Ann Univ Ferrara, Sez IV Bot
Ann Zool Fenn
Annu Rep Freshwater Biol Assoc
Annu Rev Entomol
Annu Rev Genet
Anz Schadlingskd Pflanzenschutz Umweltschutz
APE, Riv Svizz Apic
Apiacta
Applied Environ Microbiol
Arch Acker- Pflanzenbau Bodenkd
Arch Gartenbau
Arch Int Physiol Biochem
Arch Ital Anat Embriol
Arch Med Vet
Arch Microbiol
Arch Protistenkd
Arch Roum Pathol Exp Microbiol
Arch Virol
Arch Zool Exp Gen
Arch Zootec
Arkansas Cattle Bus
Arkansas Farm Res
ARS-NE U S Agric Res Serv Northeast Reg
ARS-S U S Agric Res Serv South Reg
ARS-W U S Agric Res Serv West Reg
ASC Ky Univ Dep Anim Sci
Aspects Plant Sci
Atoll Res Bull
Atti Rend Accad Naz Lincei
Audiovisual Instruction
Aust J Agric Econ
Aust J Biol Sci
Aust J Bot
Aust J Chem
Aust J Mar Freshwater Res
Aust J Zool
Aust Vet Pract
Australas Beekeep
B Coop Ext Programs Univ Wisc
Baileya
Baromfiipar
Bartonia
Beef Cattle Sci Handb
Beitr Biol Pflanz
Beitr Trop Subtrop Landwirtsch Tropenveterinarmed Karl Marx Univ
Belle Glade AREC Res Rep EV Univ Fla (Agric Res Educ Cent)
Ber Dan Pelsdyravlerforen
Ber Dtsch Bot Ges
Ber Eidg Anstalt Forstl Vers
Berl Munch Tierarztl Wochenschr
Better Crops Plant Food
Bibl Bot
Bibl Int Inst Land Reclam Improv
Bibliogr Ser Inst Pap Chem
Biene
Bienenpflege
Bienenvater
Bienenwelt
Big Farm Manage
Biochem Biophys Res Commun
Biochem Genet
Biochemistry (Easton)
Biochemistry (N Y)
Biochim Biophys Acta
Biochimie
Biol J Linn Soc
Biol Notes Ill Nat Hist Surv
Biol Sci Tokyo
Biol Zh Arm
BIOS
BioScience Am Inst Biol Sci
Biotechnol Bioeng
Biul Prac Nauk-Badaw Inst Budownictwa Mech Elektr Roln
Blyttia
Bois Forets Trop
Bol Inst Oceanogr Univ Oriente
Bol Inst Tecnol Aliment
Bol Soc Broter
Boll Chim Farm
Borgazdasag
Bot Gaz
Bot J Linn Soc
Bot Kozl
Bot Zh
Br J Nutr
Br Phycol J
Br Poult Sci
Br Sugar Beet Rev
Bras Acucar
Bras Flores
Brew Dig
Brittonia
Bull Acad Vet Fr
Bull Agric Chem Insp Stn (Tokyo)
Bull Agric Exp Stn Auburn Univ
Bull Agric Exp Stn Div Agric Univ Arkansas
Bull Balai Penelitian Perkebuanan Medan
Bull Biol Fr Belg
Bull Bot Surv India
Bull Br Arachnol Soc
Bull Br Mus Nat Hist Entomol
Bull Cent Etud Rech Sci
Bull Coop Ext Serv Univ Ga Coll Agric
Bull Div Agric Sci Univ Calif Berkeley
Bull Entomol Res
Bull Entomol Soc Can
Bull Fr Piscic
Bull Gov For Exp Stn (Tokyo)
Bull Hokkaido Prefect Agric Exp Stn
Bull Idaho Agric Exp Stn Univ Idaho Coll Agric
Bull Indones Econ Stud
Bull Int Assoc Sci Hydrol
Bull Md Insp Serv
Bull Mont Agric Exp Stn
Bull Mus Natl Hist Nat Ser 3 Bot
Bull Mus Natl Hist Nat Ser 3 Ecol Gen
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Can J Spectrosc
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Cell Immunol
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Cereal Foods World
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Champignon
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Chem Nat Compd
Chem Senses Flavor
Chromosoma
Cienc Invest Agrar
Circ Agric Exp Stn Auburn Univ
Circ Coop Ext Ser Univ Ga Coll Agric
Circ Inst Agron
Citrus Sub-Trop Fruit J
Citrus Veg Mag
CNI Weekly Rep
CNRS Res Cent Natl Rech Sci
Coconut Bull
Collana Verde
Commonw For Rev
Comp Biochem & Physiol A, Comp Physiol
Comp Biochem & Physiol C, Comp Pharmacol
Compost Sci
Conn Woodl
Cooking for Profit
Cornell Agric Econ Staff Pap
Cornell Hotel Restaurant Admin Quarterly
Cotton Allied Text Ind
Crop Sci
CSIRO Food Res Q
Ctry Life
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Curr Sci
Cytol Genet
Cytologia
Dairy Counc Dig
Dairy Farmer Dairy Beef Prod
Dairy Tales
Dan Erhvervsfjerkrae
Dan Veterinaertidskr
Dan Veterinaertidsskr
Dev Biol
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Div Soils Tech Pap C S I R O
Doc Int Dairy Fed
Dokl Akad Nauk SSSR
Dokl TSKHA Timiriazevsk S-kh Akad
Down Earth
Drev Vysk
Dtsch Baumsch
Dtsch Pelztierz
East Afr Agric For J
East Econ
Ecol Bull Statens Naturvetensk Forsk
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Ecologist
Ecology (Durham)
Econ Bot
Econ Hist Rev
Econ Plann
Econ Res Rep Dep Econ N C State Univ Raleigh
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Elelmez Ipar
Elev Insemination
Endeavour
Endocrinology
Entomol Mon Mag
Entomol News
Entomol Newsl
Entomol Rev
Entomol Tidskr
Environ & Plann
Environ Child Health
Environ Exp Bot
Environ Policy & Law
Enzyme J Enzyme Physiol Pathol
Erdo
Ernahr Umsch
ERS U S Dep Agric Econ Res Serv
Euphytica
Eur J Biochem
Exp Agric
Exp Cell Res
Exp Gerontol
Exp Husb
Experientiae
Ext Bull Asian Pac Counc Food Fert Tech Cent
Ext Bull Dep Agric South Aust
Ext Bull Md Univ Coop Ext Serv
Ext Serv Rev Coop Ext Serv
Fact Sheet Oreg State Univ Ext Serv
Faipar
Farm Chem
Farm Ed Sci
Farm Index
Farm Lett
Farm Manage Rev
Farm Ranch Home Q
Farmer Coop U S Farmer Coop Serv
Farmer (Lincoln)
Farmer Parliament
Farmers Bull U S Dep Agric
Farming Zambia
Fauna Entomol Scand
FCS Res Rep Farmer Coop Serv U S Dep Agric
FDA Consumer
Fed Proc Fed Am Soc Exp Biol

Feddes Repert
Feedstuffs
Feldwirtschaft
Feline Pract
Fert Mark News
Fitopathol Bras
Fitopatologia
Fiziol Rast (Mosk)
Fjaderfa
Fjorfe
Fla Mar Res Publ
Flora Trop East Afr
Folia For
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Food and Nutr News
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Food Management
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Food Nutr Notes Rev Aust Dep Health
Food Prod Dev
Food Serv Mark
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Food Technol Rev
For Manage Bull
For Prod J
For Res Pap Rhod For Comm Res Div
For Sci
For Serv Res Pap ITF Inst Trop For For Serv U S Dep Agric
For Tech Note East Afr Agric For Res Organ
Forderungsdienst
Forecast Home Econ
Foreign Agric Circ Cocoa Beans FCB U S Foreign Agric Serv
Foreign Agric Circ, Dried Pulses FDP (U S Dep Agric)
Foreign Agric Circ FD U S Foreign Agric Serv
Foreign Agric Circ FDF U S Foreign Agric Serv
Foreign Agric Circ FLM U S Foreign Agric Serv
Foreign Agric Circ FOP U S Foreign Agric Serv
Foreign Agric Circ FPE U S Foreign Agric Serv
Foreign Agric Circ FT U S Foreign Agric Serv
Foreign Agric Circ Sugar FS U S Foreign Agric Serv
Foreign Agric Circ Veg Fibers FVF U S Foreign Agric Serv
Foreign Agric Econ Rep U S Dep Agric Econ Res Serv
Foreign Agric Trade U S Dep Agric Econ Res Serv
Foreign Agric U S Foreign Agric Serv
Forester
Forestry
Forsch Berat, Reihe C, Wiss Ber Diskussionsbeitr
Forst Holzwirt
Fruit Var J
FVMPA Butter-Fat (Frazer Val Milk Prod Assoc)
Ga Agric Res
Gabonaipar
Garcia Orta Ser Bot
Gard J
Gart Landschaft
Gartneryrket
Gaz Chim Ital
Gazdalkodas
Gen & Comp Endocrinol
Gen Tech Rep PSW Pac Southwest For Range Exp Stn USDA For Serv
Genen Phaenen
Genet Agrar
Genet Biol Drosophila
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Genet Slechteni
Gent Herb
Gesunde Pflanz
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Givaudan Flavor
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Grana
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Hawaii Plant Rec
Heredity
Hidrol Kozl
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Highlights Agric Res
Hoards Dairym
Hog Farm Manage
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Hoppe Seylers Z Physiol Chem
Hortic News (N J State Hortic Soc)
Hortic Res
Hortsci
Hospitals
Hum Ecol
Human Ecol Forum
Hydrobiologia
I P E F (Inst Pesqui Estud Florestais)
Idojaras
IKO Inn Kolonisation Land Gemeinde
Ikon Misul
Ill Res
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Inf Conf Cursos Reun Interam Inst Agric Sci
Inf Invest Agric Invest Agric Noreste
Inf Ref CC-X Chem Control Res Inst
Inf Rep NOR-X North For Res Cent (Edmonton Alberta)
Inf Rep VP-X West For Prod Lab Vancouver
Inf U S Farmer Coop Serv
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Insect World Dig
Instit/vol Feeding
Int Flavours Food Addit
Int Holzmarkt
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Int Labor Rev
Int Rev Cytol
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Inten Agric
Iowa State Univ Vet
IRI Res Inst Inc
Irrig Farmer
Ital J Biochem
ITC J (Int Inst Aerial Surv Earth Sci)
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K Skogs och Lantbruksakademiens Tidskr
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Kenya Cof
Khim Sel'sk Khoz
Koleopterol Rundsch
Konchu
Korean Nature
Kromosomo
L Kans State Univ Agric Appl Sci Ext Serv
Lab Pract
Lancet
Landbouwmechanisatie
Landbrukstidende
Landscape
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Lantbrukshogsk Medd, Ser A
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Leafl U S Dep Agric
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Livest Meat Situat LMS U S Dep Agric
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Meded Landbouwhogesch Wageningen
Mek Sil's'k Hospod
Melsheimer Entomol Ser
Mem Coll Agric Natl Taiwan Univ
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Methods Enzymol
Methods Immunol Immunochem
Metod Zavad Vysled Vyzk Praxe
Mex For
Mezogazd Tech
Mich Farm Econ
Mikrobiol Zh
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Minn Sci
Misc Publ U S Dep Agric
Misc Rep Minn Agric Exp Stn
MIT Res J (Mindanao Inst Technol)
Mitt Biol Bundesanst Land Forstwirtsch (Berlin-Dahlem)
Mitt DLG (Dtsch Landwirtsch Ges)
Mod Vet Pract
Mol Gen Genet (MGG)
Mondo Latte
Mosq News
Mosq Syst
MP Tex Agric Exp Stn
Mt Grow
Mutat Res
Mycopathologia
Mycotaxon
N D Farm Res
N D Res Rep
N Z J Agric
N Z Vet J
Nachr Akad Wiss Gottingen
Nachrichtenbl Bayer Entomol
Natl Food Situation
Nature
Neue Brehm Bucherei
New Sci (London)
NIZO Rapp (Ned Inst Zuivelonderz)
Nor Landbruk
Nor Skogind
Nord Veterinaermed
Northwest Sci
Norw J Bot
Not Entomol
Notes I E A (Inst Econ Agric Brux)
Notes R Bot Gard Edinb
Nov Sist Vyssh Rast Akad Nauk SSSR
Nutr Action
Nutr Metab
Nutr News
Nutr Rep Int
Nutr Rev
Nutr Today
Obstbau (Vechta)
Oecologia
Off Insp Maine Life Sci Agric Exp Stn
Off Proc Annu Meet Am Assoc Feed Microsc
Options Mediterr
Oreg Agri Rec
Orienter Landbrukstek Inst (Vollebekk)
Osteuropa
Outlook Agric
PA U S Dep Agric
Packag Eng
Pag Bull
Pak Dev Rev
Pak J Bot
Pap Puu
Papier
Papua New Guinea Agric J
PB U S Natl Tech Inf Serv
PCT Pest Control Technol
Peanut J Nut World
Pediatrics
Personnel J
Persoonia
Pesqui Agropecu Bras, Ser Vet
Pest Control
Pflanzenschutzberichte
Pharm Chem J
Photochem Photobiol
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Remote Sens Environ
Rep Ser Arkansas Agric Exp Stn
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RSRI Discuss Pap Ser (Reg Sci Res Inst)
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S & TA & NU Riv Sci Tecnol Alimenti Nutr Um
S Afr J Dairy Technol
Sadovod Vinograd Vinodel Mold
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Scanning Electron Microsc Proc Symp
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Schlachten & Vermarkten
Schweiz Bienen-Zeitung
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Silvic Sao Paulo
Smithson Contrib Bot
Snack Food
Socioecon Environ Stud Ser EPA-R5
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Soil Sci Plant Nutr
Soil Water
Soils Found
Soobshch Akad Nauk Gruz SSR
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South Coop Ser Bull
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Stain Technol
Stat Bull U S Dep Agric
Stikstof ('S Grav)
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Stud Inf, Zemed Tech
Study Tea
Subtrop Kul't
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Sucr Fr
Sugar Bull
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Sumarstvo
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Supervisory Management
Sven Bot Tidskr
Sven Vet Tidn
Sver Skogvardsforb Tidskr
Symp Biol Hung
Synth Commun
T'ai Wan Nung Yeh Chi K'an
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Taiwan Sugar
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Tec Molit
Tech Ber Sticht Ned Graan Cent
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Tech Lait
Tech Q Mast Brew Assoc Am
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Termeszet Vilaga
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Tierarztl Umsch
Tob Situat TS U S Dep Agric Econ Res Serv
Todays Educ
Tr Turkmensk S-Kh Inst
Training Dev J
Trans ASAE (Am Soc Agric Eng)
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Ugeskr Agron Hortonomer Forstkandidater Licentiater
Unders Landokonomiske Driftsbur
Univ Wis For Res Notes
USDA For Ser Gen Tech Rep PNW Pac Northwest For Range Exp Stn U S Dep Agric
USDA For Serv Res Note RM U S Rocky Mt For Range Exp Stn
USDA For Serv Res Note SE U S Southeast For Exp Stn
USDA For Serv Res Pap NC (U S Dep Agric North Cent For Exp Stn)
USDA For Serv Res Pap NE (U S Northeast For Exp Stn)
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USDA For Serv Res Pap RM U S Rocky Mt For Range Exp Stn
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Veg Grow News
Vegetationsmonogr Einzelnen Grossraume
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Vestis Latv PSR Zinat Akad
Vet Rec
Veterinaria (Villa Obregon)
Vidensk Medd Dan Naturhist Foren
Virology
Viz Kozl
Vlaam Diergeneeskd Tijdschr
VM SAC (Vet Med Small Anim Clin)
W H O Chron
Warta BPTK Bull Res Inst Tea Cinchona
Water Resour
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Cut heating costs: Insulate yourself—with your clothes! Skinner, G; Nebraska Agricultrual Experiment Station Nebraska University College of Agriculture and Home Economics *Farm Ranch Home Q* 23 (3): 7-8. Fall 1976

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Soil improvement materials ..... 051988 – 052189
Soil resources and management ..... 052190 – 052291
Water resources and management ..... 052292 – 052406
General natural resources and environmental pollution ..... 052407 – 052609

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FAO PUBLICATIONS ..... p. 183
TRANSLATED PUBLICATIONS ..... p. 184
GEOGRAPHIC INDEX ..... p. 186
CORPORATE AUTHOR INDEX ..... p. 189
PERSONAL AUTHOR INDEX ..... p. 191
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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections. A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

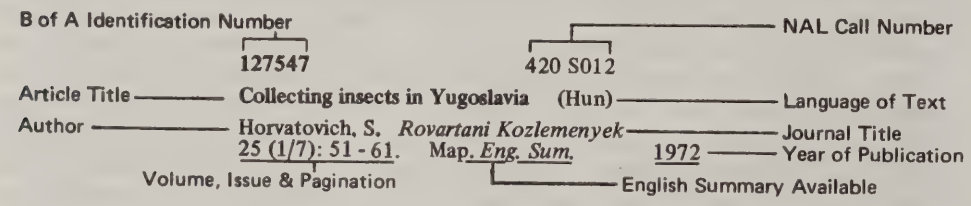
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

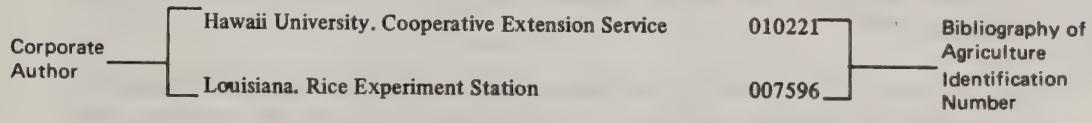
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

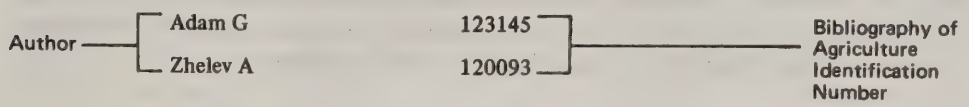
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES

Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693

The **cheese** *industry*. 227819

Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689

Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms,* published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

LIST OF JOURNAL TITLE ABBREVIATIONS CITED

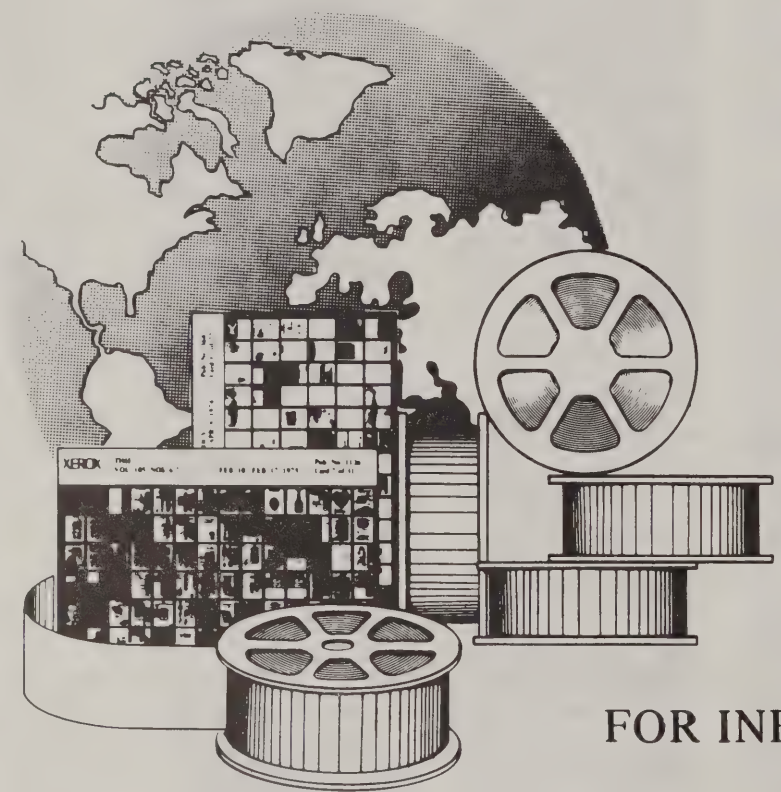
A Coop Ext Programs Univ Wis
Acarologia
Acrida
Acta Biochim Pol
Acta Biol Med Ger
Acta Biol Venez
Acta Chem Scand Ser B Org Chem Biochem
Acta Endocrinol
Acta Fac Rerum Nat Univ Comenianae Bot
Acta Fac Rerum Nat Univ Comenianae Physiol Plant
Acta Histochem
Acta Hortic
Acta Neurobiol Exp
Acta Pathol Microbiol Scand, Sect B Microbiol
Acta Pathol Microbiol Scand, Sect C Immunol
Acta Physiol Scand
Acta Univ Agric, Fac Silvic
Acta Vet (Belgr)
Acta Vet Scand
Acta Virol
Acta Zool Sin
ADA Forecast
ADAS Q Rev G B Agric Dev Advis Serv
Advis Leafl G B Minist Agric Fish Food
Afrikanerbees J
AG Econ Rep Fla Agric Exp Stn Gainesville
AGR Ky Univ Dep Agron
Agrartort Sz
Agric Adm
Agric Bergamasca
Agric Biol Chem
Agric Dig
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric Gaz N S W
Agric Handb U S Dep Agric
Agric Inf Bull U S Dep Agric
Agric Meteorol
Agric Res
Agric Situat U S Dep Agric Stat Rep Serv
Agric Syst
Agric Technol
Agriculture (Paris)
AGRI/MECH Econ Comm Eur Comm Agric Probl
Agroanimalia
Agrokhim Kharakt Pochv SSSR Pochv Inst Im V V Dokuchaeva
Agrologist
Agron Dep Mimeogr Ser Ohio Agric Res Dev Cent Dep Agron
Agron Lusit
Agron Prog Rep Univ Calif Agric Exp Stn
Agron Soils Res Ser S C Agric Exp Stn Clemson Univ
Agroplantae
Agrow-Marketer
Aktuel Lantbrukshogsk (Upps)
Allg Dtsch Imkerztg
Am Bee J
Am Christmas Tree J
Am Dairy Rev
Am Hortic
Am J Agric Econ
Am J Anat
Am J Bot
Am J Clin Nutr
Am J Physiol
Am J Vet Res
Am Lab
Am Nurserym
Am Orchid Soc Bull
Am Potato J
Am Sci
Am Veg Grow
Amer J Clin Nutr
Amis Roses
An Inst Biol Univ Nac Auton Mex Ser Bot
An Inst Hig Med Trop
An, Ser C Amelior Genet Fiziol Teh Agric Inst Cercet Pentru Cereal Plant Teh Fundulea
Anat Rec
Anim Blood Groups Biochem Genet
Anim Feed Sci Technol
Ann Agric Sci
Ann Assoc Am Geogr
Ann Bot
Ann Cape Prov Mus Albany Mus
Ann Immunol
Ann Inst Sper Valorizzazione Tecnol
Ann Nutr Aliment
Ann Parasitol Hum Comp
Ann Pharm Fr
Ann Rep Hokkaido Branch Gov For Exp Stn
Ann Sci Nat Bot Biol Veg
Ann Trop Med Parasitol
Ann Univ Maria Curie Sklodowska, Sect DD Weter
Annali Turin Univ Fac Sci Agrar
Annu Cattle Feed Day S D Agric Exp Stn
Annu Rep Argonne Natl Lab Radiol Environ Res Div
Annu Rep Div Plant Ind C S I R O
Annu Rep Ind Agric Exp Stn
Annu Rep North Nut Grow Assoc
Annu Rep Prog Chem Sect B Organic Chem
Anu Cent Edafol Biol Apl Inst Orientac Asist Tec Oeste
APHIS-91 U S Anim Plant Health Insp Serv
Apiacta
Apidologie
Appl Anim Ethology
Aquaculture
Arable Farming
Arb DLG (Dtsch Landwirtsch Ges)
Arboric Fruit
Arch Environ Health
Arch Inst Pasteur Hell
Arch Zool Exp Gen
Arch Zootec
Arct Bull
Arkh Anat Gistol Embriol
Arm Khim Zh
ARS-NE U S Agric Res Serv Northeast Reg
ARS-W U S Agric Res Serv West Reg
Atherosclerosis
Auburn Vet
Aust Entomol Mag
Aust J Dairy Technol
Aust J Exp Agric Anim Husb
Aust J Exp Biol Med Sci
Aust J Zool
Aust Vet J
Australas Beekeep
Bakers Dig
Bedrijfsontwikkeling
Bee World
Beef Cattle Sci Handb
Behav Ecol Sociobiol
Behav Processes
Berl Munch Tierarztl Wochenschr
Better Crops Plant Food
Biene
Bienenpflege
Bienenvater
Bienenwelt
Big Farm Manage
Bi-Mon Res Notes Can For Serv
Biochem Biophys Res Commun
Biochem J
Biochemistry (Easton)
Biochemistry (N Y)
Biochim Biophys Acta
Bioinorg Chem
Biol Arb
Biol Plant
Biol Reprod
Biol Sci Tokyo
Biol Zh Arm
Biologia, Ser B Zool
Biologia, Ser C Vesobecna Biol
Biologist
Biom Z
Biophysics
BIOS
BioScience Am Inst Biol Sci
Bol Acad Nac Cienc
Bol Estac Cent Ecol Inst Nac Conserv Nat
Bol Inst Agron
Bol Soc Broter
Bol Tec Cent Pesqui Cacau
Bol Tec Inst Florestal (Sao Paulo)
Boll Chim Farm
Boll Soc Ital Biol Sper
Bot Gaz
Bot Mag
Bot Zh
Bovine Pract
Br Bee J
Br J Pharmacol
Br Vet J
Brew Guardian
Brittonia
Bull Agric Exp Stn Auburn Univ
Bull Agric Exp Stn Div Agric Univ Arkansas
Bull Agric Exp Stn Univ Del
Bull Calif Water Pollut Contr Assoc
Bull CETIOM (Cent Tech Interprof Ol Metrop)
Bull Cl Sci, 5e Ser Acad R Belg
Bull Commonw Bur Pasture Field Crops Commonwealth Agric Bur
Bull Conn Arbor Conn Coll
Bull Coop Ext Serv Ohio State Univ
Bull Coop Ext Serv Univ Ga Coll Agric
Bull Entomol Soc Am
Bull Entomol Soc Can
Bull Fac Agric Shizuoka Univ
Bull Fla Agric Exp Stn
Bull G B Minist Agric Fish Food
Bull Gov For Exp Stn (Tokyo)
Bull Indones Econ Stud
Bull Inst Dev Stud
Bull Inst Zool Acad Sin
Bull Lincoln Coll N Z Dep Hortic
Bull Md Insp Serv
Bull Mens Soc Linn Lyon
Bull Miss Agric For Exp Stn
Bull Mus Natl Hist Nat Ser 3 Zool
Bull N C Agric Exp Stn
Bull N M Agric Exp Stn
Bull Nagano Hortic Exp Stn
Bull Natl Res Inst Agric Eng (Jap)
Bull O I V
Bull OEPP (Organ Eur Mediterr Prot Plant)
Bull S C Agric Exp Stn
Bull Sci Inst Text Fr
Bull Soc Sci Vet Med Comp Lyon
Bull Soc Zool Fr
Bull South Calif Acad Sci
Bull Tex Agric Exp Stn
Bull Trimest Soc Mycol Fr
Bull Univ Maine Orono Life Sci Agric Exp Stn
Bull Univ R I Agric Exp Stn
Bull W Va Agric Exp Stn
Bull Wash State Univ Coll Agric Res Cent
Bull Wash State Univ Coop Ext Serv
Bull Wildl Soc
Bull Zool Mus Univ Van Amst
C Nev Univ Coop Ext Serv
Cac Suc J G B
Cah Ing Agron
Cah Med Vet
Cajanus
Calcif Tissue Res
Calif Farmer (Cent Ed)
Cameroun Agric Pastor For
Can Agric Insect Pest Rev
Can J Anim Sci
Can J Comp Med
Can J Microbiol
Can J Physiol Pharmacol
Can J Soil Sci
Castanea
Cattle
Cattleman
Cell Differ
Cell Mass Inst Technol
Cell Tissue Res
CELOS Bull (Cent Landbouwkd Onderz Surinam)
Celul Hirtie
Cereal Chem
Cereal Foods World
Cesk Epidemiol Mikrobiol Imunol
Ceska Mykol
Champignon
Chem Ber Ges Dtsch Chem
Chem Era
Chem Lett
Chem Nat Compd
Chemosphere
Christmas Trees
Chromosoma
Circ Coop Ext Ser Univ Ga Coll Agric
Circ Ill Geol Surv
Circ Ill Univ Coop Ext Serv
Circ N J Dep Agric
Circ Univ Del Agric Exp Stn
Citrograph
Citrus Sub-Trop Fruit J
Citrus Veg Mag
Clin Exp Immunol
CMA Monogr Indian Inst Manage Cent Manage Agric
Commentat Biol Suom Tiedeseura
Comp Biochem & Physiol B, Comp Biochem
Condor
Confect Prod
Confinement
Consumer Reports
Contrib Cent Res Inst Agric (Bogor)
Contrib Herb Aust
Contrib Sci Los Ang Cty Nat Hist Mus
Cooking for Profit
Cornell Agric Econ Staff Pap
Cornell Vet
Cow Moos
CRC Crit Rev Food Sci Nutr (Chem Rubber Co)
CRC Handb Microbiol (Chem Rubber Co)
Crop Prod Conf Rep Crop Qual Counc
Cryobiology
CSIRO Food Res Q
Ctry Life
Curr Sci
Cytogenet Cell Genet
Czas Geogr
Dairy Herd Manage
Dairy Ind Int
Dairy Tales
Dairyman (Armadale)
Def Veg
Dep Inf Rep Texas A M Univ Dep Agric Econ Rural Soc
Dep Pap Coll Trop Agric Hawaii Agric Exp Stn Univ Hawaii
Desarr Rural Am
Dev Biol
Dig Int J Gastroenterol
Doc Vet
Dokl Akad Nauk Az SSR
Dokl Akad Nauk BSSR
Dokl Akad Nauk SSSR
Dokl Akad Nauk UzSSR
Dtsch Tierarztebl
East Econ
Ecol Food Nutr
Ecol Res Serv
Ecol Rev
Econ Hist Rev
Econ Inf Rep N C State Univ Dep Econ Bus
Econ Med Anim
Econ Rep Minn Univ Dep Agric Appl Econ
Edesipar
EDRO SARAP Res Tech Rep U S Food Drug Adm Sci Advis Res Assoc Program
Effluent Water Treat J
Egypt J Bot
Egypt J Dairy Sci
Egypt J Microbiol
Ekistics
Ekol Pol
Ekon Poljopr
Ekon Rev
Ekon Sov Ukr
Elelmez Ipar
Elev Insemination
Endocrinology
Endokrinologie
Entomol Bl
Entomol Rev
Entomol Tidskr

Entomol Z
Environ Aff
Environ Comment
Environ Conserv
Environ Control Biol Seibutsu Kankyo chosetsu
Environ Entomol
Environ Exp Bot
Environ Man
Environ Pollut
Environ Prot Technol Ser EPA-R2
Environ Res
Environ Sci Tech
Equip Tips
ERFA (Erdogazdasag Faipar)
ERS U S Dep Agric Econ Res Serv
ESS Ohio State Univ Dep Agric Econ Rural Sociol
Etud CNEEMA (Cent Natl Etud Exp Mach Agric)
Eur J Appl Microbiol
Eur J Biochem
Eur J Pharmacol
Euro-Farm Bus
Evolution
Exch Bibliogr Counc Plann Libr
Exp Cell Res
Exp Stn Monogr Ser Fla Agric Exp Stn
Ext Bull Agric Ext Serv Univ Minn
Ext Bull Mich State Univ Coop Ext Serv
Ext Circ Oreg State Univ Ext Serv
Ext Eng Kans Electrif
Ext Fol Agric Ext Serv Univ Minn
Ext Serv Rev Coop Ext Serv
F. O. Licht's Int Sugar Rep
Fac Ser Ga Univ Dep Agric Econ
Faipar
Farm Chem
Farm Ed Sci
Farm Front
Farm Manage Rev
Farm Ranch Home Q
Farmer Coop U S Farmer Coop Serv
Farmer (Lincoln)
Farmers Bull U S Dep Agric
Fats Oils Situat FOS U S Dep Agric Econ Res Serv
FEBS Lett (Fed Eur Biochem Soc)
Fed Proc Fed Am Soc Exp Biol
Feedlot Manage
Feedstuffs
Feline Pract
Fert Mark News
Fert News
Fert Prog
Fert Sci Technol Ser
Fieldiana Bot
Filamentous Fungi
Fisheries
Fitoterapia
Fiziol Rast (Mosk)
Fiziol Zh SSSR
Fla Entomol
Fla Foliage Grow
Fla Food Resour Econ
Fla Nat
Florists Rev
Flower And Gard West Ed
Flower Nursery Rep Commer Grow Coop Ext Univ Calif
Fluoride
Folia For
Folia For Polon, Ser B Drzewn
Folia Morphol
Foll Divulg Inst Nac Invest Agric (Mex)
Folleto Misc Mex Inst Nac Invest Agric
Food Cosmet Toxicol
Food Eng
Food Manuf
Food Nutr Notes Rev
Food Nutr Notes Rev Aust Dep Health
Food Process Ind
Food Prod Dev
Food Serv Mark
Food Technol
Food Technol Aust
For Indus Rev
FOR Ky Univ Coop Ext Serv
For Prod J
For Prot Handb
For Tech Rep Can For Serv
Foreign Agric Circ FCOF U S Foreign Agric Serv
Foreign Agric Circ FOP U S Foreign Agric Serv
Foreign Agric Circ FPE U S Foreign Agric Serv
Foreign Agric Circ FT U S Foreign Agric Serv
Foreign Agric Circ, Grains FG, U S Dep Agric Foreign Agric Serv
Foreign Agric Circ Rice FR U S Foreign Agric Serv
Foreign Agric Circ Tree Nuts FN U S Foreign Agric Serv
Foreign Agric Econ Rep U S Dep Agric Econ Res Serv
Foreign Agric U S Foreign Agric Serv
Forsk Prakt
Forst Holzwirt
Frugtavleren
G Allevatori
Ga Vet
Garcia Orta Ser Bot
Gard Club Am Bull
Gart Landschaft
Gartneryrket
Gegenbaurs Morphol Jahrb
Gen & Comp Endocrinol
Gen Ser Colo Agric Exp Stn
Genet Iber
Genet Pol
Genet Res
Genetica
Genetics
Geoderma
Geogr Rev
Geomorfologiia
Gesunde Pflanz
Gesundheitswes Desinfekt
Getreide Mehl Brot
Getting Most Out Food
Glean Bee Cult
Gottinger Floristische Rundbriefe
Grain Storage Process Mark Rep
Grana
Great Lakes Entomol
Growth
Growth & Change
Grune
Grzyby Pol Akad Nauk Inst Bot
Harpers Export Wine Spirit Gaz
Hereditas
Hidrol Kozl
Hidrometeorol Straipsniai
Hilgardia
Hoards Dairym
Holly Lett
Holzindustrie
Home Econ N C Agric Ext Serv N C State Univ Raleigh
Home Econ Res J
Home Gard Bull U S Dep Agric
Hoppe Seylers Z Physiol Chem
Horsemen's J
Hortic Dig
Hortic Ind
Hortsci
Hospitals
Houil Blanc
Hunter Nat Hist
Hutoipar
Hydrobiol Bull
Idaho Agric Res Prog Rep
Ill Agric Econ
Ill Res
Immunochemistry
In A Report on Seminar and Workshop in Pesticide Management
In Aquatic Weeds in South East Asia; Proceedings of a Regional Seminar on Noxious Aquatic Vegetation
In Biochemistry and Cytology of Plant-Parasite Interaction. K. Tomiyama, & others, eds.
In Der Deutsche Bauernkrieg 1524-1526
In Ekonomicheskie problemy agrarno-promyshlennoi integratsii. A. S. Negru-Vode & others, eds.
In Environmental Change in the Maritimes; a Symposium
In Facts and Reflections II. H. J. Over & J. Armour, eds.
In FAI-ISMA Seminar Technol Compd Fert Based Urea, Use Benefic Low Grade Phosphate Rock, Proceedings
In Final Report on Effect of Ultraviolet Irradiation on Agricultural Productivity
In Fitontsidy; eksperimental'nye issledovaniia, voprosy Teorii i praktiki. B. E. Aizenman, & others, eds.
In Fotosintez iabloni i vinograda pri razlichnykh usloviiakhproizrastaniia. G. V. Shishkanu, and others, eds.
In Future Landscapes. M. MacEwen, ed.
In Herbicides: Physiology, Biochemistry, Ecology. L. J. Audus, ed.
In Industrial Fishery Technology. M. E. Stansby & others.
In Mammalian Olfaction, Reproductive Processes, and Behavior. R. L. Doty, ed.
In Mikrobiologicheskie preparaty. IU. O. IUkobson & others, Eds.
In Origin and Fate of Chemical Residues in Food, Agriculture and Fisheries; Proceedings
In Papers from a Workshop on Unconventional Sources of Protein
In Plant Biochemistry. J. Bonner & J. E. Varner, eds.
In Proceedings of a Symposium on Water Quality Management Through Biological Control
In Proceedings of Physiology Program Formulation Workshop
In Proteolysis and Physiological Regulation. D. W. Ribbons & K. Brew, eds.
In Quality detection in foods. J. J. Caffney, comp.
In Radical Agriculture; R. Merrill, ed.
In Recent Chemistry of Natural Products, Including Tobacco; Proceedings of the Philip Morris Science Symposium
In Strategy for Development. J. Barratt, D. S. Collier, K. Glaser, H. Monnig, eds.
In Studies of Environmental Plutonium and Other Transuranics in Desert Ecosystems
In Symposium on Fish Processing Industry in India
In The Feedlot. I. A. Dyer & C. C. O'Mary, eds.
In The Recycling and Disposal of Solid Waste. M. E. Henstock, ed.
In Transportation and Land Development Policy; Annual Meeting of the Transportation Research Board
In Turfgrass Research Summary; Department of Crop & Soil Sciences, Michigan State University
In UFAW (Univ Fed Anim Welfare) Handb Care Manage Lab Anim
In Urbanization in the Arid Lands; A Symposium
In Zur Ernahrungssituation der Schweizerischen Bevolkerung: Erster schweizerischer Ernahrungsbericht
Ind Aliment Anim
Indian Drugs
Indian For
Indian J Anim Sci
Indian J Med Res
Indian J Nutr Diet
Indian J Power River Val Dev
Indian Poult Rev
Indian Vet J
Indiana Crop Livest Stat Indiana Agric Exp Stn Dep Agric Stat
Inf Agric (Luxemb)
Inf Fitopatol
Inf For
Inf Internes Agric Eur Econ Community
Inf Invest Agric Invest Agric Noreste
Inf Ref CC-X Chem Control Res Inst
Inf Rep BC-X Pac For Res Cent
Inf Tec Argent Repub Estac Exp Agropecu Pergamino
Inf Tech Cent Tech Int Prof Ol Metrop
Infect Immun
Insectes Soc
Instit Distrib
Instit/vol Feeding
Inst/Vol Feed
Int Arch Allergy Appl Immunol
Int Biodeterior Bull
Int J Biochem
Int J Insect Morphol Embryol
Int J Radiat Biol Relat Stud Phys Chem Med
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J Am Diet Assoc
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Khim-Farm Zh
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Kosmos, Ser A Biol
La Agric
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Landwirtsch-Angew Wiss Bundesminist Ernahr Landwirtsch Forsten Ger (Fed Repub)
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M A F E S Res Highlights (Miss Agric For Exp Stn)
Mach Agric Trop
Madras Agric J
Maelkeritidende
Magy Textiltech
Makromol Chem
Malays Agric J
Manage Forum
Mar Biol
Marcellia
Mark Bull U S Dep Agric
Mark Res Rep U S Dep Agric
Meat Ind (Mill Val)
Med Parazitol Parazit Bolezn
Medd Landokon Driftsbur (Kobenh)
Meded Landbouwhogesch Wageningen
Meded Overdrukken Landbouw Econ Inst
Meded Rijksfac Landbouwwet
Meded Rijksstation Sierplanteteelt
Meded Rijksuniv Fac Landbouwwet
Meieriposten
Mek Sil's'k Hospod
Melanderia
Melior Rolne
Mem N Y Bot Gard
Menara Perkebunan
Meteorol Gidrol
Methods Immunol Immunochem
Metod Zavad Vysled Vyzk Praxe
Mezogazd Tech
Mezogazd Vilagirodalom
Mezsaimn Mezrupnieciba
Mich Acad
Mich Bot
Microbios Lett
Microsc Acta
Mikrobiol Zh
Mikroskopie
Milk Ind
Mimeogr Ser Univ Arkansas Agric Exp Stn
Minn Dairyman
Minutes Annu Meet Natl Plant Board
MIRINZ Meat Indus Res Inst N Z
Mirov Econ Mezhdunar Otnoshen
Misc Inf Tokyo Univ For
Misc Publ Hawaii Agric Exp Stn
Misc Publ U S Dep Agric
Misc Rep Cent Overseas Pest Res
Misc Rep Minn Agric Exp Stn
Mitt Biol Bundesanst Land Forstwirtsch (Berlin-Dahlem)
Mitt Forstl Bundes-Versuchsanst Wien
Mitt Ges Biblioteksw es Dok Landbaues
Mitt Munch Entomol Ges
Mitt Schweiz Braunviehzuchtverb
Mitt Schweiz Landwirtsch
Mod Vet Pract
Mol Biol
Mol Biol Rep
Mol Cell Endocrinol
Mol Gen Genet (MGG)
Mol Pharmacol
Monatsh Chem
Mondo Latte
Mosonmagyarovari Agrartud Foiskola Kozlemenyei Bull
MP Tex Agric Exp Stn
Munch Beitr Abwasser Fisch Flussbiol
Mushroom J
Mutat Res

LIST OF JOURNAL TITLE ABBREVIATIONS CITED

Mycologia
N Z J Sci
N Z J Zool
Nat Belg
Nature
Nauchn Tr Nauchno-Issled Inst Kartofel'n Khoz
Nauchn Tr Vses Nauchno-Issled Inst Fiziol Biokhim Pitan S-kh Zhivotn
Nauka Pol
Naunyn-Schmiedeberg's Arch Pharmacol
Ned Bosbouw Tijdschr
Neth J Agric Sci
Neth J Sea Res
New Engl Gard Mag
New Sci (London)
Nor Skogind
Nor Veterinaertidskr
Nord Mejeritidsskr
North Cent Reg Res Publ
Norw J Zool
Not Entomol
Note Rech Laval Univ Dep Exploit Util Bois
Nouv Avic
Nov Zhini Nauke Tekh, Ser Biol
Nucleic Acids Res
Nutr Food Sci
Nutr News
Nutr Rep Int
O T A N Newsl Organ Trop Am Nematol
Occas Pap N Y State Coll Agric Dep Agric Econ
Oecologia
Off Proc Annu Meet Am Assoc Feed Microsc
Ohio Rep Res Dev Agric Home Econ Nat Resour
Onderstepoort J Vet Res
Ontogenez
Options Mediterr
Orchid Dig
Osterreichische Tierarzte Ztg
Outstate Test Circ Nebr Agric Exp Stn
Ovtsevodstvo
PA U S Dep Agric
Pac Discov
PAG Bull Protein-Calorie Advis Group U N Syst
Pamiet Pulawski Inst Uprawy Nawozenia Glebozn
Pap Avul Zool
Pap Puu
Paper (Athens Ga)
Papeterie
Parasitica
Parfums Cosmet Aromes
PB U S Natl Tech Inf Serv
Pchelarstvo
Pchelovodstvo
Pediatrics
Pepinier Hortic Maraich
Personnel J
Pestic Biochem Physiol
Pestic Environ
Pestic Res Rep Can Comm Pestic Use Agric
Pesticides
Philos Trans R Soc Lond, Ser B Biol Sci
Phytochemistry
Phytocoenologia
Phytoma
Phytomorphology
Phytophylactica
Pig Farmer
Pig Farming
Plan Khoz
Plant Cell Physiol
Plant Dis Rep
Plant Foods Man
Plant Inventory U S Agric Res Cent Beltsville
Planta
Planzenschutz Nachr
PM Iowa State Univ Sci Technol Ames Coop Ext Serv
PNW Bull Oreg State Univ Coop Ext Serv
Pollut Atmos
Pomme Terre Fr
Pomol Fr
Poult Advis
Poult Guide
Poult Notes N S W Dep Agric
Poult Sci
Poult World
Poult World/Poult Ind Manage Guide
Pr Inst Technol Drewna
Pr Publ Poznan Tow Przyj Nauk Wydz Mat Przyr Kom Biol
Pract Nutr
Prikl Biokhim Mikrobiol
Priroda (Mosk)
Proc Am Assoc Vet Lab Diagn
Proc Entomol Soc Wash
Proc Indian Acad Sci, Sec B
Proc Indian Natl Sci Acad, Part B Biol Sci
Proc Int Assoc Seed Crushers
Proc La Acad Sci
Proc Meat Ind Res Conf
Proc N Z Weed Pest Control Conf
Proc Natl Acad Sci U S A
Proc Pa Acad Sci
Proc R Soc Lond, B Biol Sci
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Proc Staten Isl Inst Arts Sci
Proc Symp Environ Radioact Chem Therm Releases Nucl Ind
Proc Trans Br Entomol Nat Hist Soc
Proceedings; Golden Jubilee 1925-75 of the Sugar Technologists Association of India
Prof Nutr
Prof Pap U S Geol Surv
Prog Agric Vitic
Prog Rep Ky Agric Exp Stn
Prog Rep Tex Agric Exp Stn
Przegl Zool Pol Tow Zool
Publ Agric Econ Res Unit Lincoln Coll
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Publ Great Plains Agric Counc
Publ Mus, Biol Ser Mich State Univ
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Publ U S Ext Serv
Publ Va Polytech Inst & State Univ Ext Div
Pulp & Pap Can
Pulp And Pap
Q Rev Agric Econ Aust Bur Agric Econ
Quaest Geobiol
Quick Frozen Foods
R T I A (Rev Tech Econ Ind Aliment)
Radiat Res
Radiobiology
Ranch Mag
Rapp Proefstn Rundveehouderij
Rapp Uppsats Inst Skogsgenet Skogshogsk (Stockh)
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Rep Ferment Res Inst (Jap)
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Res Circ Ohio Agric Res Dev Cent
Res Farming (Raleigh)
Res Life Sci
Res Note INT U S Dep Agric For Serv Intermt For Range Exp Stn
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Resour Bull PNW USDA For Serv Pac Northwest For Range Exp Stn (U S Dep Agric)
Resour Bull SO South For Exp Stn For Serv U S Dep Agric
Respir Physiol
Restaurant Bus
Rev Cafetalera
Rev Cafetalera Helsinki
Rev Embouteillage Indus Cond Trait Distrib Transp
Rev Estud Agrosoc
Rev Ferment Ind Aliment
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Sb Nauchn Tr Eest Pollumajanduse Akad
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Sb UVTI, Ochr Rostl Cesk Akad Zemed (Ustav Vedeckotech Inf)
Sch Lunch J
Schweiz Bienen-Zeitung
Schweiz Landwirtsch Monatsh
Schweiz Z Obst Weinbau
Sci Biol J
Sci Pap Coll Gen Educ
Sci Publ Freshwater Biol Assoc
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Sementi Elette
Ser CE Int Cent Trop Agric
Slovenski Cebelar
Smaskrift Landbruksdep Opplysningstjenesten (Norway)
SNA Nursery Res J (South Nurserymen's Assoc)
So Afr Bee J
Soil Assoc
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Vestn Cesk Akad Zemed
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Vestn Moskovsk Univ, Khim
Vestn Stat
Vestn Zool
Vet Pathol
Vet Rec
Vet Rev
Veterinariia (Mosk)
Vigneron Champenois
Virology
Visnyk Akad Nauk Ukr RSR
Vitamin
Vlaam Diergeneeskd Tijdschr
VM SAC (Vet Med Small Anim Clin)
Vopr Ekon
Vopr Virusol
WAA, World Agric Aviat
Water Resour
Water Resour Invest
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Water Sci
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Weed Res
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Wet Meded K N N V (K Ned Naturhist Ver)
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Who's Who Minn AI Sires
Wiad Inst Melior Uzytkow Zielon
Wool Massey Coll Wool Assoc
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GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. The Oryx Press, in cooperation with Datagraphics Press, Inc., prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield. Material covered by both the Bibliography and the Catalog is also available through computerized, on-line interactive systems offered by System Development Corporation and Lockheed Information Systems.

Publications are considered for indexing in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience. Articles that would not otherwise be indexed in the *Bibliography of Agriculture* might be included for USDA authored, sponsored, or published materials.

The Bibliography is now divided into ten sections: A main entry section, five main entry sub-sections, a geographic index, a corporate author index, a personal author index, and a subject index. In addition, a list of Journal Titles indexed in this issue is included in the front matter.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

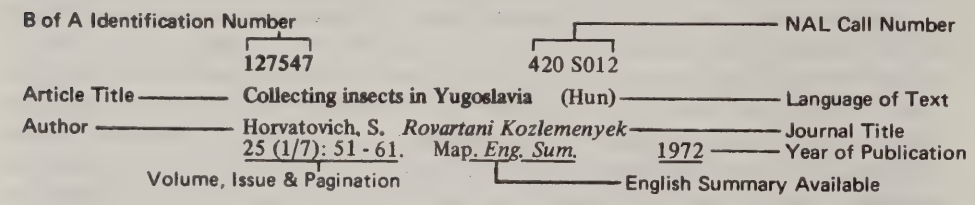
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identfier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Geo)	Georgian	(Pol)	Polish
(Alb)	Albanian	(Ger)	German	(Por)	Portuguese
(Arm)	Armenian	(Gre)	Greek	(Rum)	Rumanian
(Aze)	Azerbaijani	(Heb)	Hebrew	(Rus)	Russian
(Bel)	Belorussian	(Hun)	Hungarian	(Scc)	Serbo-Croatian (Cyrillic)
(Bul)	Bulgarian	(Ice)	Icelandic		
(Bur)	Burmese	(Ind)	Indonesian	(Scr)	Serbo-Croatian (Roman)
(Chi)	Chinese	(Ita)	Italian		
(Cze)	Czech	(Jpn)	Japanese	(Slo)	Slovak
(Dan)	Danish	(Kor)	Korean	(Slv)	Slovenian
(Dut)	Dutch	(Lat)	Latin	(Spa)	Spanish
(Est)	Estonian	(Lav)	Latvian	(Swe)	Swedish
(Fin)	Finnish	(Lit)	Lithuanian	(Tha)	Thai
(Fle)	Flemish	(Mac)	Macedonian	(Tur)	Turkish
(Fre)	French	(Nor)	Norwegian	(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



MAIN ENTRY SUB-SECTIONS

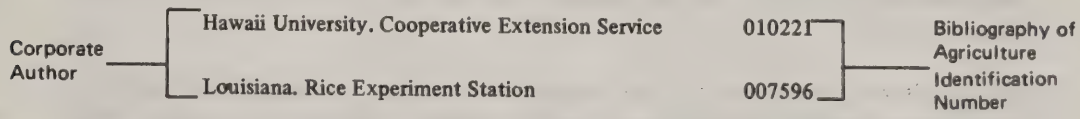
Since The Oryx Press became publisher of the *Bibliography of Agriculture* (in January 1975), five main entry sub-sections have been added. These sections follow The Main Entry Section and appear in the following order: USDA Publications (authored by, sponsored by, and published by); State Agricultural Experiment Station Publications; State Agricultural Extension Service Publications; FAO Publications; and Translated Publications. Each of these five sections appeared in the original *Bibliography of Agriculture* published by the U.S. Department of Agriculture prior to 1970. The citation format used in these five sections differs from The Main Entry Section only in the elimination of the *Bibliography of Agriculture* Identification Number. These numbers have been dropped in these sections because all the entries are in The Main Entry Section as well as in the sub-sections.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

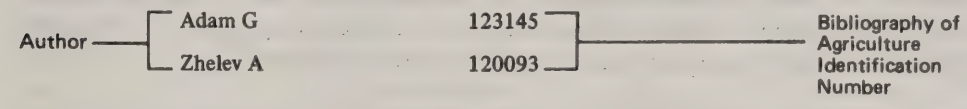
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



SUBJECT INDEX

The vocabulary of the *Bibliography of Agriculture* is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are complete (none are truncated), and are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants.

The title word on which the entry is based, appears in italics to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, appears in bold face type. The alphabetic sequence is by the secondary (bold face) word. These word pairs help provide finer access to desired terms, particularly under headings which have many entries.

CHEESES

Production and sale of *Gorgonzola* **cheese** [Prices, trade, productive capacity]. 227693

The **cheese** *industry*. 227819

Information for the consumer and advertising abroad of typical *Italian* **cheeses** [Prices]. 227689

Not enough to produce—Sale of *Italian* **cheeses** urgency of modern forms and efficient structures [Prices, trade].

Many general terms were deleted from the control vocabulary in 1975, and work is underway on the establishment of a more complete list of specific terms. Each subsequent issue will reflect this work. The *Thesaurus of Agricultural Terms,* published in 1976, reflects all the changes made in the control vocabulary through December 1975.

The last item of each entry in the Subject Index is the six digit *Bibliography of Agriculture* identification number. Use this number to locate the complete main entry citation in the monthly issues.

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at $1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

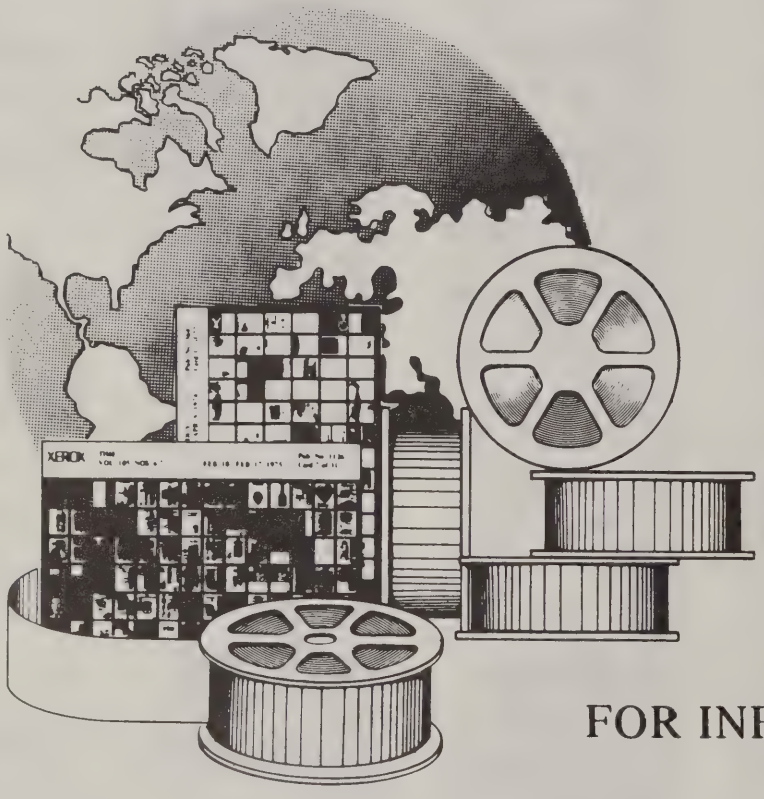
LIST OF JOURNAL TITLE ABBREVIATIONS CITED

A Coop Ext Programs Univ Wis
A E Res N Y State Univ Dep Agric Econ
A M A (Agric Mech Asia)
A M R C Rev Aust Meat Res Comm
A P P S Newsl Aust Plant Pathol Soc
Abeille Fr Apicul
Abeilles & Fleurs
Acta Aliment Pol
Acta Anat
Acta Biol Iugosl, Ser B Mikrobiol
Acta Endocrinol
Acta Med Vet
Acta Neurobiol Exp
Acta Physiol Scand
Acta Pol Pharm
Acta Pruhonic
Acta Theriol
Acta Univ Agric, Fac Silvic
Acta Vet (Budap)
Acta Zool Lilloana
Actual Cereales
Adv Appl Microbiol
Adv Chromatogr
Agrarrecht
Agrarwirtschaft
Agric Agroind J
Agric Biol Chem
Agric Econ Bull Malays Fed Agric Mark Auth
Agric Econ Rep Dep Agric Econ Mich State Univ
Agric Econ Rep Econ Res Serv U S Dep Agric
Agric El Salv
Agric Eng (St Joseph, Mich)
Agric Enterp Stud Engl Wales Econ Rep
Agric Gaz N S W
Agric Handb U S Dep Agric
Agric Hist
Agric Hoje
Agric Meteorol
Agric Res
Agro-Ecosystems (Amsterdam)
Agrologist
Agron Econ Res Trop Soils Annu Rep N C State Univ Soil Sci Dep
Agrow-Marketer
Aktuel Litinf Obstbau Berlin Tech Univ Bibl
Aktuelt Landbruksdep Opplysningstjeneste
Ala For Prod
Algodonero
Alimenta
Am Bee J
Am Dairy Rev
Am Econ Rev
Am Farriers J
Am For
Am Hortic
Am J Agric Econ
Am J Bot
Am J Cardiology
Am J Clin Nutr
Am J Nursing
Am J Physiol
Am J Public Health
Am Nat
Am Nurserym
Am Orchid Soc Bull
Am Potato J
Am Potato Yearb
Am Rock Gard Soc Bull
Am Veg Grow
Amer J Clin Nutr
An Asoc Quim Argent
Anal Biochem
Andhra Pradesh Cotton Association Seminar
Anim Feed Sci Technol
Ann Agron
Ann Amelior Plant
Ann Bot
Ann Gembloux
Ann Geogr
Ann Mo Bot Gard
Ann Zool Pol Akad Nauk Inst Zool
Annu Flax Inst U S
Annu Rep Air Resour Atmos Turbul Diffus Lab
Antilocust Mem Minist Overseas Dev Antilocust Res Cent (Lond)
Anu Cent Edafol Biol Apl Inst Orientac Asist Tec Oeste
APDC Newsl (Agric Pests Destr Counc)
APE, Riv Svizz Apic
Apiacta
Appl Entomol Zool
AR Agric Rec
Arable Farming
Arbeiten Hohenheim Univ
Arbor Bull Arbor Found Seattle
Arboric Fruit
Arboric J
Arch Anat Microsc Morphol Exp
Arch Bot Biogeogr Ital
Arch Inst Pasteur Tunis
Arch Int Physiol Biochem
Arch Ital Anat Embriol
Arkansas Farm Res
Arnoldia
Arq Esc Vet Univ Fed Minas Gerais
ARS-NE U S Agric Res Serv Northeast Reg
ARS-S U S Agric Res Serv South Reg
Assoc NAL Today Assoc Natl Agric Libr Inc
Astra Protein Letter
Atherosclerosis
Atmos Environ
Atual Vet
Aust Entomol Mag
Aust For Ind J
Aust J Chem
Aust J Zool
Aust J Zool Suppl Ser Suppl
Aust Parks Recreat
Av Aliment Mejora Anim
Avian Dis
Avian Pathol
Baileya
Bakers Dig
Baroda J Nutr
Behav Genet
Beitr Osterreichischen Stat Austria Statist Zentralamt
Belg Apic
Beret Statens Forsogsmejeri
Berita Selulosa
Berl Munch Tierarztl Wochenschr
Betriebswirtsch Mitt Wirtschaftsberat
Better Crops Plant Food
Bhagirath
Biatas, The Tillage Farmer
Bibl Wiad IMUZ (Inst Melior Uzytkow Zielon)
Biene
Bienenvater
Bienenwelt
Big Farm Manage
Bijdr Dierkd Comm Artis Bibliotheek
Biken J
Biochem J
Biochem Syst Ecol
Biochemistry (Easton)
Biochimie
Biogeographica
Biol Chem Vyz Zvirat
Biol Conserv
Biol Rev
Biol Unser Zeit
Biol Zh Arm
Biologico
Biomed Mass Spectrom
Biometrika
Bioorg Khim
Biophys Chem
BIOS
BioScience Am Inst Biol Sci
Biul Warz
Biull Eksp Biol Med
Biull Nauchn Rabot Vses Nauchno-Issled Inst Zhivotnovod
Biull Vses Inst Eksp Vet
Bol Agric
Bol Divulg Inst Nac Invest For
Bol Inst Tecnol Aliment
Bol Tec Braz Dep Nac Obras Contra Secas
Bol Tec Cent Pesqui Cacau
Bol Tec Secr Agric Ganad Subsecr For Fauna Inst Nac Invest For Mex
Bonsai J
Bookl G B For Comm
Borgazdasag
Bot Gaz
Bot Mus Leafl Harv Univ
Br Food J
Br J Ind Med
Br J Nutr
Branntweinwirtschaft
Brauwelt
Brew Dig
Broil Ind
Bull A Ariz Univ Ext Serv
Bull A S P S (Afr Suc Plant Soc)
Bull Conn Univ Ext Serv
Bull Coop Ext Serv Ohio State Univ
Bull Coop Ext Serv Univ Ga Coll Agric
Bull Dep For Resour Manage Univ Ibadan
Bull East Scotl Coll Agric Econ Dep
Bull Endem Dis Inst Endem Dis
Bull Entomol Res
Bull Gov For Exp Stn (Tokyo)
Bull Inf CNEEMA (Cent Natl Etud Exp Mach Agric)
Bull Inst Meat
Bull Inst Tech Porc
Bull Inst Tropen Afd Agrar Onderz
Bull Int Inst Land Reclam Improv
Bull La Agric Exp Stn Dep Agron
Bull N M Agric Exp Stn
Bull Pa Agric Exp Stn
Bull Pac Trop Bot Gard
Bull Res Div, Va Polytech Inst State Univ
Bull Res Inst Agric Econ
Bull S C Agric Exp Stn
Bull Sci Inst Text Fr
Bull Sci Sect A Sci Nat Tech Med Akad Savet FNRJ
Bull Soc Pathol Exot Ses Fil
Bull Taiwan For Res Inst
Bull Tex Agric Exp Stn
Bull Univ Maine Orono Life Sci Agric Exp Stn
Bull Univ R I Agric Exp Stn
Bull Univ Tenn Agric Exp Stn
Bull W Va Agric Exp Stn
Bull Wash State Univ Coll Agric Res Cent
Bull World Health Organ
Butter Fat Solids
Buvar
C Coop Ext Serv Kans State Univ
C R Acad Bulg Sci
Cac Suc J
Cafe Cacao The
Cah Ing Agron
Cah Ser Hydrol ORSTOM (Off Rech Sci Tech Outre-Mer)
Cah Ser Pedol ORSTOM (Off Rech Sci Tech Outre-Mer)
Cajanus
Calcif Tissue Res
Calif Farmer (Cent Ed)
Calif Feed Day
Calif Plant Pathol
Calif West States Grape Grow
Can Agric Eng
Can Farm Econ
Can Field Nat
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Can Geogr J
Can Home Econ J
Can J Afr Stud
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Can J Chem
Can J Microbiol
Can Plant Dis Surv Can Dep Agric Res Branch
Cane Grow Q Bull Queensl Bur Sugar Exp Stn
Carbohydr Res
Cattleman
Cell Mass Inst Technol
Cell Tissue Res
Cellul Carta
Cellul Chem Technol
Cereal Foods World
Cereal Rusts Bull
Cerevisia
Chem Commun
Chem Era
Chem Ind Soc Chem Ind
Chem Lett
Chem Nat Compd
Chimia
Chmelarstvi
Chromosoma
Chron Hortic
Circ Clemson Univ Ext Serv
Circ Coop Ext Ser Univ Ga Coll Agric
Circ Fla Univ Agric Ext Serv
Circ Ill Univ Coop Ext Serv
Circ Inf Oreg Agric Exp Stn
Circ La Agric Exp Stn
Circ Wash (State) Agric Exp Stn
Citrograph
Citrus Sub-Trop Fruit J
Citrus Veg Mag
Clays & Clay Miner
Clin Exp Immunol
Clin Exp Immunoreproduction
Clin Toxicol
CNI Weekly Rep
Cocoa Grow Bull
Coconut Bull
Collect Czech Chem Commun
Commun Soil Sci Plant Anal
Comun Ser Prod Veg Inst Nac Invest Agrar
Confinement
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Cooking for Profit
Coop Ext Pub La State Univ Agric Mech Coll Coop Ext Serv
Cow Moos
CRC Crit Rev Food Sci Nutr (Chem Rubber Co)
Crop Sci
Ctry Life
Cuban J Agric Sci
Cultiv Mod
Cytobios
Czas Geogr
Dairy Counc Dig
Dairy Farmer Dairy Beef Prod
Dairy Herd Manage
Dairy Ind Int
Dairy Notes
Dairyfarm Dig
Dairyman (Armadale)
Dan Erhvervsfjerkrae
Dan Pelsdyravl
Delhi Gard Mag
Dep Pap Coll Trop Agric Hawaii Agric Exp Stn Univ Hawaii
Desarr Rural Am
Descr Plant Viruses Connw Mycol Inst
Dev Grow Differ
Div Appl Chem Tech Pap Commonw Sci Indus Res Organ
Dokl Akad Nauk SSSR
Dokl, Ser Biol Akad Nauk SSSR
Dokl TSKHA Timiriazevsk S-kh Akad
Drevo
Drvna Ind
Dtsch Lebensm Rundsch
Dtsch Pelztierz
E H P (Environ Health Perspect)
Ecol Bull Statens Naturvetensk Forsk
Ecol Model
Ecol Res Ser
Ecol Res Serv
Ecologist
Econ & Polit Wkly
Econ Branch Publ Can Dep Agric Econ Branch
Econ Inf Rep N C State Univ Dep Econ Bus
Egg Ind
Egypt J Dairy Sci
Egypt J Hortic
Egypt J Vet Sci
Elelmez Ipar
Empress Chinchilla Breeder
Endocrinology
Entomol Ber (Amsterdam)
Environ & Plann
Environ Child Health
Environ Comment
Environ Conserv
Environ Health Eff Res Ser EPA
Environ Pollut

Environ Prot Technol Ser
Environ Sci Tech
Environ Southwest
ERFA (Erdogazdasag Faipar)
Ernahrungswirtschaft
ERS U S Dep Agric Econ Res Serv
Etud CNEEMA (Cent Natl Etud Exp Mach Agric)
Eur Rev Agric Econ
Eurofruit
Europ J Immunol
Evol Agric Mens Attual Tec Zooagric
Exch Bibliogr Counc Plann Libr
Exp Cell Res
Experientiae
Ext Bull Agric Ext Serv Univ Minn
Ext Bull Dep Agric South Aust
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F. O. Licht's Int Sugar Rep
Faipar
Fam Health
Farm Food Res
Farm Front
Farm Income Ser G B Minist Agric Fish Food
Farm Mach
Farm Saf Rev
Farmer Parliament
Farmers Bull U S Dep Agric
Farming Bus
Farming Zambia
Faserforsch Textiltech
FDA Consumer
FEBS Lett (Fed Eur Biochem Soc)
Feedstuffs
Feld Wald Wasser Schweiz Jagdztg
Fert News
Fette Seifen Anstrichm
Field Stn Rec Commonw Sci Ind Res Organ
Fieldiana Zool
Fiji Agric J
Fisheries
Fitoterapia
Fiziol Biokhim Sil's'kohospod Tvaryn
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Fla Grower & Rancher
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Florists Rev
Flower And Gard West Ed
Flower Nursery Rep Commer Grow Coop Ext Univ Calif
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Folia Histochem Cytochem
Food Chem
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Food Farming Agric
Food Management
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Food Nutr
Food Nutr Notes Rev
Food Policy (Sussex)
Food Process Ind
Food Serv Mark
Food Technol
Food Technol N Z
Food Technol Rev
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For Pest Leafl U S For Serv
For Res Rep Agric Exp Stn Univ Ill
For Tech Rep Can For Serv
Forecast Home Econ
Foreign Agric Circ Canned Fruits FCAN U S Foreign Agric Serv
Foreign Agric Circ FD U S Foreign Agric Serv
Foreign Agric Circ FOP U S Foreign Agric Serv
Foreign Agric Circ, Grains FG, U S Dep Agric Foreign Agric Serv
Foreign Agric Circ Rice FR U S Foreign Agric Serv
Foreign Agric Circ Tree Nuts FN U S Foreign Agric Serv
Foreign Agric Econ Rep U S Dep Agric Econ Res Serv
Foreign Agric Trade U S Dep Agric Econ Res Serv
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Forschungsber Forstl Forschungsanst Munchen
Forsk Prakt
Fresenius Z Anal Chem
Fruit Sci Rep
Fruits & Abeilles
Ga Agric Res
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Garden
Gaz Apic
Gazdalkodas
Gemuse
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Geochim Cosmochim Acta
Geoponika
Gestencild Versl Lab Tuinbouwplantenteelt Landbouwhogesch (Wageningen)
Getting Most Out Food
Glean Bee Cult
God Zb Biol Annu Biol Skopje Univ Prir-Mat Fak
Grass J Br Assoc Green Crop Driers
Great Lakes Entomol
Ground Water
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Harvest Regul Ser Rep Wash (State) Dep Nat Resour
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Hog Farm Manage
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Home Econ Res J
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Home Gard Bull U S Dep Agric
Hortic Ind
Hortic News (N J State Hortic Soc)
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Hybrid
IAWA Bull (Int Assoc Wood Anat)
ICID Bull (Int Comm Irrig Drain)
Imkerfreund
Immunochemistry
Immunogenetics
Immunology
In Animal Virology; ICN-UCLA Symposia on Molecular and Cellular Biology
In Biochemical aspects of Plant-Parasite Relationships; Proceedings of the Phytochemical Society Symposium
In Biodegradation et humification; rapport du colloque international
In California Annual Grassland Ecosystem Symposium
In Chemical Treatment and Preservation of Wood. V. S. Gromov, ed.
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Ind Saccarif Ital
Indian Dairym
Indian Drugs
Indian Farm Mech
Indian Farming
Indian Food Pack
Indian For
Indian Hortic
Indian J Agric Sci
Indian J Anim Sci
Indian J Med Res
Indian J Nutr Diet
Indian J Poult Sci
Indian J Power River Val Dev
Indian J Seric
Indian J Technol
Indian Poult Rev
Indian Silk
Indian Sugar
Indian Tob Bull
Indian Vet J
Inf Agric (Luxemb)
Inf Bot Ital
Inf Fitopatol
Inf Ortofruttic
Inf Ref CC-X Chem Control Res Inst
Inf Ser Bull N Z Dep Sci Ind Res
Inf Tec Argent Repub Estac Exp Agropecu Pergamino
Insectes Soc
Insects Micronesia
Instit/vol Feeding
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Int Flavours Food Addit
Int J Biometeorol
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Int J Vitam Nutr Res
Int Pest Control
Interciencia
Interdep Publ ID Univ Ky Coop Ext Serv
Introd Akklim Rast
INTSOY Ser Int Soybean Program
Iowa State Univ Vet
IPIRI J (Indian Plywood Indus Res Inst)
Iran J Plant Pathol
Isr Agric
ISR Interdiscip Sci Rev
Issled Genet
Ital Agric
Izv Akad Nauk BSSR, Ser Biol Nauk
Izv Akad Nauk Turkm SSR, Ser Biol Nauk
Izv Vyssh Uchebn Zaved, Teknol Tekst Prom-st
J Agric Food Chem
J Agric Soc Trinidad Tobago
J Am Anim Hosp Assoc
J Am Chem Soc
J Am Diet Assoc
J Am Leather Chem Assoc
J Am Soc Brew Chem
J Am Soc Hortic Sci
J Am Vet Med Assoc
J Amer Med Assoc
J Anim Sci
J Appl Chem Biotechnol
J Appl Polym Sci
J Arboric
J Assoc Off Anal Chem
J Aust Entomol Soc
J Aust Inst Agric Sci
J Biochem (Tokyo)
J Biol Stand
J Biosoc Sci
J Bromeli Soc
J Can Diet Assoc
J Can Inst Food Sci Technol
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J Cell Sci
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J Chem Soc, Perkin Trans I
J Chin Agric Chem Soc
J Chromatogr
J Chromatogr Sci
J Comp Physiol
J Dairy Res
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J Diet Assoc Victoria
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J Environ Syst
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J Microsc Biol Cell
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J Morphol
J Nutr
J Nutr Educ
J Nutr Sci Vitaminol
J Pathol (Edinb)
J Peasant Stud
J Pediatrics
J Phycol
J Physiol
J Physiol (Paris)
J Plant Crops
J R Soc N Z
J Range Manage
J Res U S Geol Surv
J Sci Food Agric
J Seric Sci Jap
J Small Anim Pract
J Submicrosc Cytol
J Suisse Apicul
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J Texture Stud
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J Ultrastruct Res
J Zool
Jap J Vet Sci
Jap Pestic Inf
Jarmuvek, Mezogazd Gepek
Jordbruksekon Medd
Journal of Human Nutrition
Jute Bull
Kenya Cof
Kenyan Geogr
Kerala J Vet Sci
Khelmintologiia
Khim Zhizn
Kistenyesztok Lapja
Korean J Plant Prot
Kozarstvi
Kulturpflanze
L Kans State Univ Agric Appl Sci Ext Serv
La Vie Agric Meuse
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L'Action Vet
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Land Res Ser Commonw Sci Ind Res Org
Landbauforsch Volkenrode
Landbouwkd Tijdschr
Landbouwmechanisatie
Landscape
Landwirtsch Jahrb Schweiz
Laporan Rep Lembaga Penelitian Hasil Hutan
LASCA Leaves (Los Ang State Cty Arbor)
Latte
Lav Arroz
LC (Listy Cukrov)
Leafl Coop Ext Serv Univ Ga Coll Agric
Leafl Div Agric Sci Univ Calif Berkeley Coop Ext
Leafl G B For Comm
Leafl North Irel Advis Serv Dep Agric
Leafl U S Dep Agric
Lesn Stud Vysk Ustav Lesn Hospod
L'Hortic Fr
Life Sci
Linn Soc Symp Ser
Livest Advis
Livest Breed J
Livest Prod Sci
M A F E S Res Highlights (Miss Agric For Exp Stn)
Macaroni J
Maelkeritidende
Maize Genet Coop Newsl (Bloomington)
Mar Biol
Mar Sci Commun
Marcellia
Mark Bull U S Dep Agric
Mark Res Rep U S Dep Agric
Math Biosci
Med Nor Myrselsk
Med World News
Medd Kgl Vet Landbohojsk Afd Landbrug Plantkult
Medd Statens Forsogsvirksomhed Plantekult
Meded Overdrukken Landbouw Econ Inst
Meded Rijksfac Landbouwwet
Meded Rijksuniv Fac Landbouwwet
Media & Methods
Meheszet
Meieriposten
Meld Nor Landbrukshogsk
Meld Statens Kornforretning
Mem Tokyo Univ Agric
Menara Perkebunan
Metab Clin Exp
Methods Enzymol
Metod Zavad Vysled Vyzk Praxe
Mezogazd Tech
Mezogazd Vilagirodalom
Mich Farm Econ
Micron
Milk Ind
Mimeogr Ser Univ Arkansas Agric Exp Stn
Minn Hortic

Misc Publ Md Agric Exp Stn
Misc Publ Tall Timbers Res Stn
Misc Rep Minn Agric Exp Stn
Mitt Chem Forschungsinst Wirtsch Osterreichs Osterreichischen Kunststoffinst
Mitt Entomol Ges BRD
Mo Bot Gard Bull
Mod Plywood Tech
Mod Vet Pract
Mol Biol Rep
Mol Cell Biochem
Mol Gen Genet (MGG)
Molineria Panaderia
Monatsh Veterinarmed
Mondo Latte
Monit Zool Ital Ital J Zool New Ser
Monit Zool Ital, Suppl
Monitor
Monogr Bot
MP Tex Agric Exp Stn
Mt Grow
Mushroom J
Mutat Res
My Forest
Mycol Pap Commonw Mycol Inst
Mycopathologia
Mykol Sb
N Z Agric Sci
N Z J Agric
N Z J Bot
N Z J Dairy Sci Technol
N Z J For
N Z Tob Grow J
Na Okika O Hawaii (Hawaii Orchid J)
Nat Can
Natl Cac Suc J
Natl Wool Grow
Natur Landschaftsschutzgebiete Baden-Wurttembergs
Naturalist
Nature
Naturwiss Rundsch
Naunyn-Schmiedeberg's Arch Pharmacol
Ned Bosbouw Tijdschr
Neth J Plant Pathol
Neue Bienenzucht
New Engl Gard Mag
New Sci (London)
Newsl Electron Microsc Cent Facil Md Univ
Nor Entomol Tidsskr
Nor Pelsdyrbl
Nor Skogind
Nord Mejeritidsskr
North Log Timber Process
North Victorian Fruitgrower
Norw J Bot
Note Rech Laval Univ Dep Exploit Util Bois
Nouv Avic
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Nowe Roln
NR Technol Malays Rubber Prod Res Assoc
Nucleic Acids Res
Nuovi Ann Ig Microbiol
Nutr Food Sci
Nutr News
Nutr Newslett
Nutr Program News
Nutr Rep Int
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Oecologia
Ohio Woodl
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Opera Bot
Opusc Zool
Orchard N Z
Orchid Dig
Origins Life
Osterreichische Tierarzte Ztg
Outlook Wash United Fresh Fruit Veg Assoc
Outstate Test Circ Nebr Agric Exp Stn
Overz Landbouw Econ Inst
PA U S Dep Agric
Pac Hortic
Pac Insects
Pag Bull
PANS Pest Artic News Summ
Pap Avul Zool
Pap Puu
Pap World Res Dev Number
Papier
Pathol Biol
PB U S Natl Tech Inf Serv
Peanut Sci
Pecan Q
Pecan South
Personnel J
Perspectives Biol Med
Pest Control
Pestic Biochem Physiol
Pestic Monit J
Pestic Sci
Pesticides
Pharm Acta Helv
Philos Trans R Soc Lond, Ser B Biol Sci
Photochem Photobiol
Photogramm Eng Remote Sensing
Phytochemistry
Phytoparasitica
Phytopathol Pap Commonw Mycol Inst
Phytopathology
Phytoprotection
Pig Breed Gaz
Pig Farming
Plant Chron
Plant Dis Rep
Plant Physiol
Planters Bull Rubber Res Inst Malaya
Plasticulture
PM Iowa State Univ Sci Technol Ames Coop Ext Serv
Pollut Eng
Polymer
Pork Ind Gaz
Postepy Biochem
Postepy Biol Komorki
Postepy Nauk Roln
Poult Guide
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Pr Publ Poznan Tow Przyj Nauk Wydz Mat Przyr Kom Biol
Prairie Gard
Priroda (Mosk)
Proc Annu Meet Northeast Weed Sci Soc
Proc Aust Soc Anim Prod
Proc Calif Fert Conf
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Proc Iowa Acad Sci
Proc K Ned Akad Wet, Ser C Biol Med Sci
Proc Pa Acad Sci
Proc R Soc Lond, B Biol Sci
Proc Ruakura Farmers Conf
Proc Soc Exp Biol Med
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Process Biochem
Prod Agric Fr
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Prod Veg Hortic
Prof Nutr
Prof Pap U S Geol Surv
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Prog Farmer (Birmingham)
Prog Farming
Prog Hortic
Prog Labores Invest Agropecu Univ Panama Fac Agron
Prog Rep Tex Agric Exp Stn
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Pulp & Pap Can
Punjab Hortic J
Q J Crude Drug Res
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Quick Frozen Foods
Radiat Res
Ranch Mag
Rapp IB (Inst Bodemvruchbaar Haren Gr)
Rapp Proefstn Rundveehouderij
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Rep Nebr Univ Dep Agric Econ
Rep Ser Arkansas Agric Exp Stn
Rep Univ Newcastle Upon Tyne Dep Agric Econ
Res Norw Agric
Res Note INT U S Dep Agric For Serv Intermt For Range Exp Stn
Res Pap For Res Lab Sch For Oreg State Univ
Res Rep Ky Agric Exp Stn
Res Rep Miss Agric For Exp Stn
Res Rep N H Agric Exp Stn
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Rev Palaeobot Palynol
Rev Plant Prot Res
Rev Rural Sci
Rev Suisse Agric
Rev Vinic Int
Rhododendron
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Rice J
Riv Ital Sost Grasse
RSRI Discuss Pap Ser (Reg Sci Res Inst)
S Afr J Sci
S Afr Sugar Yearb
Sains Malays J Nat Sci
Sante Abeille
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SB Univ Nebr Lincoln Coll Agric Agric Exp Stn
Scand J Immunol
Sch Bus Affairs
Schriften Landwirtschaftskammer Rheinl
Schriftenr Land Sozialfragen
Schweiz Bienen-Zeitung
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Seifen Ole Fette Wachse
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Ser Conf Cursos Reun Interam Inst Agric Sci
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Singapore J Primary Ind
Smaskrift Landbruksdep Opplysningstjenesten (Norway)
Socioecon Environ Stud Ser EPA-R5
Socio-Econ Inf Ohio Agric Rural Communities
Soil Biol Biochem
Sol Energy
Soobshch Akad Nauk Gruz SSR
Soripar
South Coop Ser Bull
Southeast Asian J Trop Med Public Health
Southwest Nat
Sov J Dev Biol
Soybean Dig
Spec Rep Arkansas Agric Exp Stn
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Stn Bull Agric Exp Stn Univ Minn
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Stud Inf, Zemed Tech
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Tappi (Tech Assoc Pulp Paper Ind)
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Tech Bull U S Dep Agric
Tech Bull Wis Dep Nat Resour Div Conserv
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Trop Agric (Guildford)
Trop Anim Health Prod
Trop Geogr Med
Trop Grain Legume Bull
Trop Grassl
Trop Stored Prod Inf
TSitologiia
TVS Veg Situation Econ Res Serv U S Dep Agric
Type A Topics
U S Agric Res Serv (Reprints of articles by ARS employees)
U S D A For Serv Res Note PSW U S Pac Southwest For Range Exp Stn
U S D A For Serv Res Pap FPL
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Uroda
USDA For Ser Res Note NE (U S Dep Agric Northeast For Exp Stn)
USDA For Serv Gen Tech Rep NE U S Northeast For Exp Stn
USDA For Serv Gen Tech Rep RM U S Rocky Mt For Range Exp Stn
USDA For Serv Res Note PNW U S Pac Northwest For Range Exp Stn
USDA For Serv Res Note SE U S Southeast For Exp Stn
USDA For Serv Res Pap INT U S Intermt For Range Exp Stn
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Victorian Hortic Dig
Vie Milieu Ser A: Biol Mar
Vie Milieu, Ser C Biol Terr
Vigneron Champenois
Vinifera Wine Grow J
Virology
Visnyk Akad Nauk Ukr RSR
VM SAC (Vet Med Small Anim Clin)
Vopr Ekon
Vopr Virusol
Water Pollut Control
Water Res
Water Resour Invest
Water Sci
Weeds Trees Turf
Whats New Plant Physiol
Wilhelm Roux Arch Entwicklungsmech Org
Wine & Spirit
Wines Vines
Wood Sci
Woodwork Indus
World Wood
Wydawn Wlasne Inst Zootech
Yayin Istanbul Univ Orman Fak
Z Naturforsch Teil A Phys Phys Chem Kosmophys
Zentralbl Bakteriol Parasitenkd Infektionskr Hyg, I Abt Orig, Reihe B Hyg Prav Med
Zh Prikl Khim
Zool Sb Akad Nauk Arm SSR Zool Inst
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GENERAL AGRICULTURE AND RURAL SOCIOLOGY

052610 SB605.A8A9
The role of extension specialists in agricultural production. Sherf, A F *A P P S Newsl Aust Plant Pathol Soc* 5 (3): 43. Sept 1976

K1.G3
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